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Seafood Business Report

SPRING 1983 VOLUME 81, NUMBER 2

FOODSERVICE:
Special Occasion Restaurants —
The Boston Sea Party Chain

PROCESSING:
Alaska Fisheries Targets Retail

MARKETING: Big Bucks
Battle for the Consumer Dollar

MANAGEMENT:
Computer Options

C4875-3 4/29/83

PACIFIC PACKERS REPORT ISSUE:
SEAFOOD LANDINGS
COMPANY PRODUCTION
DIRECTORIES

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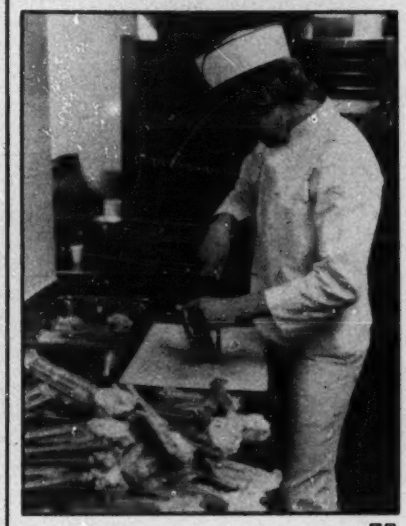
INSIDE Seafood Business Report

SPRING 1983 VOLUME 81, NUMBER 2



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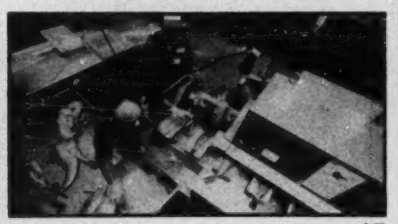

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COVER: Shrimp is just one item on the all-you-can-eat buffet line at Boston Sea Party restaurants, a national seafood chain owned by International Multifoods. See story, page 35. Photographs by John E. Croft.

PACIFIC PACKERS REPORT

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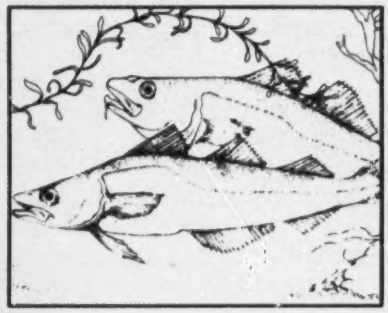

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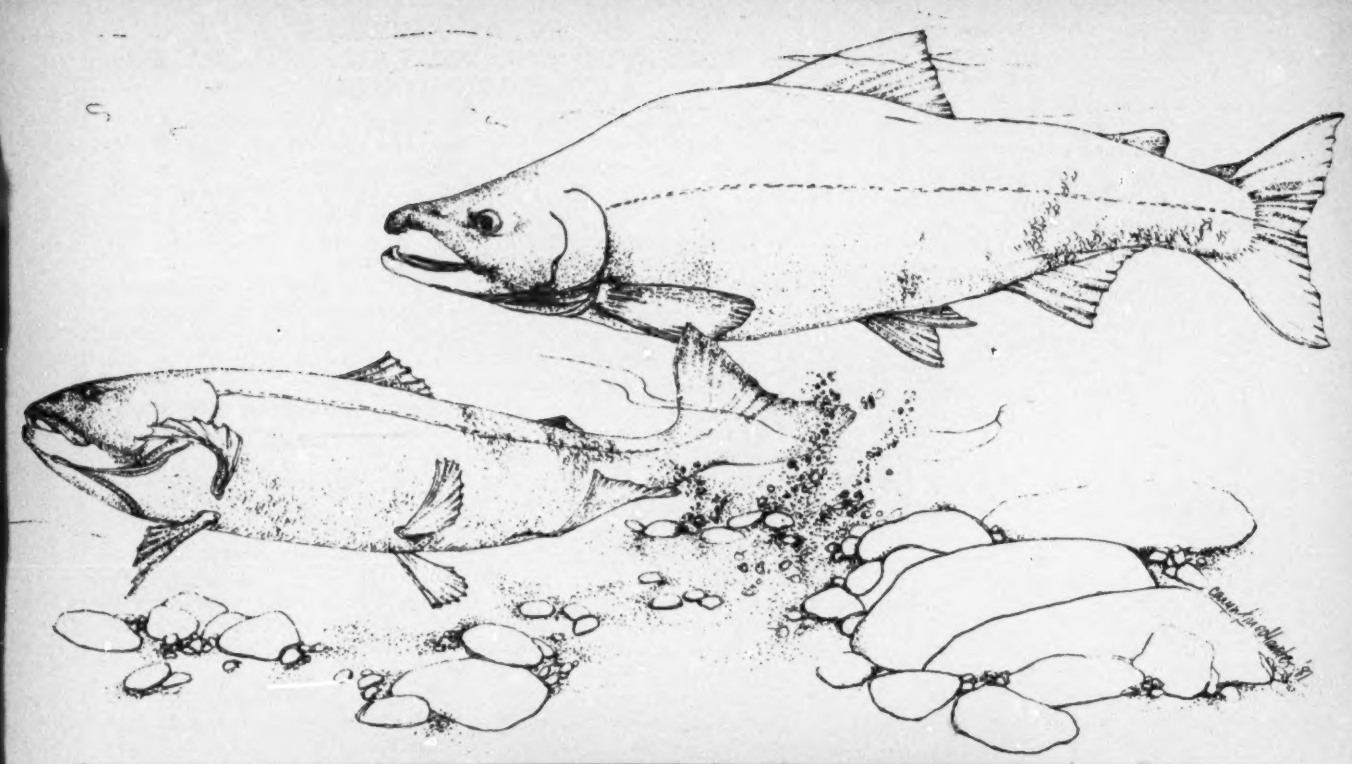

Pacific Packers Report

SALMON:

Inventories Haunt Packers

For the third year in a row, the salmon industry has had to cope with moving large quantities of both canned and frozen salmon in a depressed market. The industry will not be given a respite in 1983 — a harvest of 95 million salmon is predicted. Only the Alaska Department of Fish and Game is considering the 1982 salmon season a success, based on record catches and good escapements. The 1982 commercial salmon season saw the fourth largest harvest in history, 110.1 million salmon. It did not fall far behind 1981's record-breaking catch of 111.4 million fish.

Because of the botulism incident in the spring of 1982, the start of the 1982 salmon season found the industry with an exceptionally high carryover inventory of canned salmon. The carryover on July 1, 1982 was 1,651,757 cases compared with 570,284 at the start of the 1981 season. The industry anticipated that, with soft markets and full warehouses, more salmon than ever would go to the freezer. The shift from canned salmon to fresh, frozen and cured salmon was perhaps more rapid and dramatic than expected. The 1982 Alaska canned salmon pack of 2,342,541 cases was almost half that of 1981's large pack of 4,431,925 cases. *Seafood Business Report* estimates that only 32 percent of the total

(continued on page 60)

1982 Pacific Canned Salmon Packs and Values

(48-LB. CASE EQUIVALENTS)

	RED		PINK		CHUM		COHO		KING		TOTAL	
	Cases	Value ($)	Cases	Value ($)	Cases	Value ($)	Cases	Value ($)	Cases	Value ($)	Cases	Value ($)
Alaska	303,325	41,053,471	1,811,487	131,728,592	192,279	11,278,537	32,676	3,264,948	2,774	304,334	2,342,541	187,629,882
Washington	60,618	9,632,025	30,684	2,155,969	1,362	72,095	3,965	404,995	24	2,773	96,653	12,267,857
Total United States	363,943	50,685,496	1,842,171	133,884,561	193,641	11,350,632	36,641	3,669,943	2,798	307,107	2,439,194	199,897,739
British Columbia*	551,145	101,961,825	138,648	16,637,760	73,759	7,744,695	45,774	6,866,100	5,754	638,694	815,464	133,892,471
GRAND TOTAL	915,088	152,647,321	1,980,819	150,522,321	267,400	19,095,327	82,415	10,536,043	8,552	945,801	3,254,658	333,790,210

*Steelhead included in total. Value in Canadian funds.

Note: Data are preliminary.

Source: National Food Processors Association (figures are complied from the portion of the pack examined by NFPA), Marine Resources Branch, Province of B.C., and *Seafood Business Report.*

1982 Western Alaska

(48-LB. CASE EQUIVALENTS)

COMPANY	LOCATION	RED 1 & 4 lb cans	RED ½ & ¼ lb cans	RED Total	PINK 1 & 4 lb cans	PINK ½ & ¼ lb cans	PINK Total
Alaska Packers Assn., Inc.	S. Naknek	5,983	12,805	18,788	886		886
Bumble Bee Seafoods	S. Naknek	645	917	1,562	149	483	632
Columbia Wards Fisheries	Egegik	13,332	13,101	26,433	284	787	1,071
	Ekuk	19,404	6,128	25,532	210	4,867	5,077
	Total	32,736	19,229	51,965	494	5,654	6,148
Diamond E Fisheries	Egegik		15,000	15,000			
Egegik Seafoods	Egegik	12,700		12,700			
Nelbro Packing Co.	Naknek	1,693	16,551	18,244		180	180
Peter Pan Seafoods, Inc.	Dillingham	21,818	3,639	25,457	544		544
Red Salmon Co.	Naknek	645	917	1,562	149	483	632
Whitney Fidalgo Seafoods, Inc.	Naknek	14,411	15,851	30,262			
Miscellaneous	Western Alaska	5,830	14,385	20,215	48,664	18,176	66,840
TOTAL	Western Alaska	96,461	99,294	195,755	50,886	24,976	75,862

1982 Central Alaska

COMPANY	LOCATION	RED 1 & 4 lb cans	RED ½ & ¼ lb cans	RED Total	PINK 1 & 4 lb cans	PINK ½ & ¼ lb cans	PINK Total
Alaska Packers Assn., Inc.	Chignik		295	295	14,581	230	14,811
	Cordova*		978	978	30,132	7,563	37,695
	Total		1,273	1,273	44,713	7,793	52,506
Blakes Fancy Smoked Salmon	Cordova		34	34			
Columbia Wards Fisheries	Alitak	2,599	999	3,598	33,279	4,975	38,254
	Chignik	5,878	1,912	7,790	4,741	4	4,745
	Kenai	502	2,048	2,550	503	1,457	1,960
	Kodiak	47		47	5,101		5,101
	Port Bailey	416	724	1,140	26,631	5,803	32,434
	Total	9,442	5,683	15,125	70 255	12,239	82,494
Icicle Seafoods, Inc.	Seward	145	19	164	114,289	76,141	190,430
Kodiak King Crab, Inc.	Kodiak	15,200	1,100	16,300	99,500	4,600	104,100
Larsen Bay Seafoods, Inc.	Larsen Bay	293	2,816	3,109	83,587	4,339	87,926
Ocean Beauty Alaska, Inc.	Uganik	2,200	200	2,400	32,700	1,000	33,700
Pan Alaska Fisheries, Inc.	Unalaska	1,600	650	2,250	35,200	17,700	52,900
Peter Pan Seafoods, Inc.	King Cove	17,934	2,575	20,509	143,557	13,007	156,564
Sea-Nik Foods	Ninilchik		65	65		70	70
St. Elias Ocean Products, Inc.	Cordova	122		122	68,207	16,779	84,986
Whitney Fidalgo Seafoods, Inc.	Port Graham	353	3,205	3,558	28,226	1,254	29,480
	Uyak	4,610		4,610	32,531		32,531
	Total	4,963	3,205	8,168	60,757	1,254	62,011
Miscellaneous	Central Alaska	9,845	15,917	25,762	105,361	1,803	107,164
TOTAL	Central Alaska	61,744	33,537	95,281	858,126	156,725	1,014,851

*Custom processed

1982 Southeast Alaska

COMPANY	LOCATION	RED 1 & 4 lb cans	RED ½ & ¼ lb cans	RED Total	PINK 1 & 4 lb cans	PINK ½ & ¼ lb cans	PINK Total
Annette Island Packing Co.	Metlakatla	384	255	639	71,938	15,997	87,935
Columbia Wards Fisheries	Craig Fish Camp	123		123	57,861		57,861
Excursion Inlet Packing Co.	Excursion Inlet				87,876	3,795	91,671
Harbor Seafoods Co., Inc.	Wrangell		489	489	8,700		8,700
Icicle Seafoods, Inc.	Petersburg		14	14	125,967	6,103	132,070
Ocean Beauty Alaska, Inc.	Ketchikan	687		687	44,499		44,499
Nelbro Packing Co.	Petersburg	608	1,221	1,829	13,048	36,704	49,752
Wards Cove Packing Co., Inc.	Ketchikan		38	38	93,521	5,139	98,660
Whitney Fidalgo Seafoods, Inc.	Ketchikan	6,508		6,508	115,309		115,309
TOTAL	Southeast Alaska	8,310	2,017	10,327	618,719	67,738	686,457

Note: Miscellaneous pack represents production by the following companies — Western: Bering Sea Fisheries, Inc., Queen Fisheries, Inc., Togiak Fisheries, Inc.; Central: Alaska Pacific Seafoods, Chignik Canning Co., Keener Packing Co., Inc., Kenai Packers, North Pacific Processors.
Source: *Seafood Business Report;* Totals for Western and Central Alaska: National Food Processors Association

Canned Salmon Pack

CHUM 1 & 4 lb cans	CHUM ½ & ¼ lb cans	CHUM Total	COHO 1 & 4 lb cans	COHO ½ & ¼ lb cans	COHO Total	KING 1 & 4 lb cans	KING ½ & ¼ lb cans	KING Total	TOTAL	COMPANY
1,511	110	1,621							21,295	Alaska Packers Assn., Inc.
	276	276		41	41	19		19	2,530	Bumble Bee Seafoods
657	1,116	1,773		84	84		27	27	29,388	Columbia Wards Fisheries
1,809	857	2,666		1,733	1,733	44	92	136	35,144	
2,466	1,973	4,439		1,817	1,817	44	119	163	64,532	
									15,000	Diamond E Fisheries
400		400							13,100	Egegik Seafoods
728	379	1,107				92	125	217	19,748	Nelbro Packing Co.
1,982	2	1,984	155		155				28,140	Peter Pan Seafoods, Inc.
	276	276		41	41	19		19	2,530	Red Salmon Co.
725	210	935				1		1	31,198	Whitney Fidalgo Seafoods, Inc.
5,600	5,242	10,842	4,415	1,528	5,943	424	1,428	1,852	105,692	Miscellaneous
13,412	8,468	21,880	4,570	3,427	7,997	599	1,672	2,271	303,765	TOTAL

Canned Salmon Pack

CHUM 1 & 4 lb cans	CHUM ½ & ¼ lb cans	CHUM Total	COHO 1 & 4 lb cans	COHO ½ & ¼ lb cans	COHO Total	KING 1 & 4 lb cans	KING ½ & ¼ lb cans	KING Total	TOTAL	COMPANY
7,351		7,351	841		841	15		15	23,313	Alaska Packers Assn., Inc.
541	125	666	172	405	577				39,916	
7,892	125	8,017	1,013	405	1,418	15		15	63,229	
						24		24	58	Blakes Fancy Smoked Salmon
10,411	72	10,483	104	17	121				52,456	Columbia Wards Fisheries
7,707	13	7,720	564		564		5	5	20,824	
1,712	991	2,703	1,124	530	1,654				8,867	
2,112		2,112	286		286				7,546	
4,858	1,806	6,664	722	1,340	2,062				42,300	
26,800	2,882	29,682	2,800	1,887	4,687		5	5	131,993	
777	577	1,354	5		5				191,953	Icicle Seafoods, Inc.
15,400	3,400	18,800	1,600	1,700	3,300				142,500	Kodiak King Crab, Inc.
4,417	1,982	6,399	664		664				98,098	Larsen Bay Seafoods, Inc.
9,000	500	9,500	1,000	100	1,100				46,700	Ocean Beauty Alaska, Inc.
1,000	600	1,600							56,750	Pan Alaska Fisheries, Inc.
10,009	47,030	57,039	1,321	2,470	3,791				237,903	Peter Pan Seafoods, Inc.
	60	60		50	50		30	30	275	Sea-Nik Foods
491	135	626	879		879				86,613	St. Elias Ocean Products, Inc.
6,516		6,516	511	32	543	31	51	82	40,179	Whitney Fidalgo Seafoods, Inc.
2,217		2,217	585		585	2		2	39,945	
8,733		8,733	1,096	32	1,128	33	51	84	80,124	
1,785	14,060	15,845	107	2,625	2,732	143		143	151,646	Miscellaneous
86,304	71,351	157,655	10,485	9,269	19,754	215	86	301	1,287,642	TOTAL

Canned Salmon Pack

CHUM 1 & 4 lb cans	CHUM ½ & ¼ lb cans	CHUM Total	COHO 1 & 4 lb cans	COHO ½ & ¼ lb cans	COHO Total	KING 1 & 4 lb cans	KING ½ & ¼ lb cans	KING Total	TOTAL	COMPANY
3,801	259	4,060	925	119	1,044				93,678	Annette Island Packing Co.
855		855	343		343	2		2	59,184	Columbia Wards Fisheries
									91,671	Excursion Inlet Packing Co.
			228		228				9,417	Harbor Seafoods Co., Inc.
			2		2	5		5	132,091	Icicle Seafoods, Inc.
1,229		1,229	551		551	12		12	46,978	Ocean Beauty Alaska, Inc.
1,151	65	1,216	386	135	521	17		17	53,335	Nelbro Packing Co.
93	9	102	535	47	582				99,382	Wards Cove Packing Co., Inc.
5,317		5,317	1,786		1,786	200		200	129,120	Whitney Fidalgo Seafoods, Inc.
12,446	333	12,779	4,756	301	5,057	236		236	714,856	TOTAL

Pacific Canned Salmon Packs and Values by State

(48-LB. CASE EQUIVALENTS)

	ALASKA		WASHINGTON		OREGON		U.S. TOTAL*		BRITISH COLUMBIA*		GRAND TOTAL		
YEAR	Cases	Value ($)	Cases	Value ($)	Cases	Value ($)	Cases	Value ($)	Cases	Value ($)	Cases	Value ($)	YEAR
1940	5,028,378	31,828,451	222,808	2,825,000	297,716	4,129,220	5,548,902	38,782,681	1,467,227	427,923	7,016,129	50,209,908	1940
1941	6,906,503	57,466,702	491,311	6,162,000	399,840	5,925,444	7,798,799	69,567,646	2,248,870	18,406,545	10,047,669	87,974,191	1941
1942	5,089,109	48,677,509	366,065	6,909,000	397,331	6,890,162	5,852,515	62,476,671	1,811,560	20,050,238	7,664,075	82,526,909	1942
1943	5,396,509	58,579,194	149,175	2,309,000	130,707	2,857,246	5,677,158	63,761,440	1,258,221	11,673,469	6,935,379	75,434,909	1943
1944	4,877,796	51,608,544	81,490	1,774,000	159,783	3,445,244	5,119,943	56,843,448	1,097,558	11,479,093	6,652,646	68,322,541	1944
1945	4,338,692	44,528,964	414,258	4,845,000	155,292	3,287,812	4,913,335	52,699,776	1,739,311	18,409,962	6,217,521	71,109,738	1945
1946	3,971,109	58,667,561	385,437	13,020,000	206,563	7,165,645	5,568,149	79,006,206	1,348,138	17,532,462	5,916,287	96,538,668	1946
1947	4,302,466	91,297,885	957,429	21,420,000	338,852	11,133,690	5,812,644	124,364,575	1,505,157	24,900,000	7,117,379	149,264,575	1947
1948	4,010,612	100,694,614	484,102	12,685,858	314,556	10,956,513	4,820,687	124,703,080	1,308,137	26,579,000	6,128,824	151,282,080	1948
1949	4,391,051	81,262,468	973,740	17,481,782	158,472	4,665,290	5,524,376	103,430,780	1,436,464	27,654,489	6,960,840	131,085,269	1949
1950	3,272,643	81,403,511	670,341	18,285,000	176,063	6,193,000	4,119,047	105,881,511	1,482,560	30,155,177	5,602,056	183,885,502	1950
1951	3,534,315	77,201,463	906,252	21,357,974	175,091	6,631,198	4,615,658	105,190,635	1,955,475	46,261,080	6,571,133	151,451,715	1951
1952	3,574,191	76,357,016	749,591	17,122,352	140,565	4,784,421	4,455,022	99,636,808	1,293,435	27,751,435	5,741,490	127,388,243	1952
1953	2,934,667	60,987,334	838,422	18,680,750	127,808	4,063,675	3,911,333	83,747,184	1,821,269	35,060,600	5,732,602	118,807,784	1953
1954	3,207,154	66,139,617	973,941	25,727,689	92,291	3,130,700	4,275,548	95,063,437	1,742,736	39,293,176	6,018,284	134,356,613	1954
1955	2,457,969	58,839,784	764,719	17,569,902	138,250	4,996,355	3,286,785	81,436,652	1,406,100	31,644,673	4,692,885	113,081,325	1955
1956	2,950,354	76,948,880	334,505	11,097,115	147,105	5,401,329	3,432,658	93,472,448	1,118,279	32,231,241	4,550,937	125,703,989	1956
1957	2,442,710	62,564,386	624,842	18,296,970	118,161	4,948,224	3,187,887	85,887,711	1,424,264	35,872,414	4,612,151	207,647,836	1957
1958	2,974,993	65,531,283	625,909	20,659,030	134,754	6,053,733	3,736,661	92,290,276	1,908,056	56,740,772	5,644,717	149,031,048	1958
1959	1,770,795	49,493,910	585,487	18,118,907	101,712	4,239,463	2,457,994	71,852,280	1,077,097	35,280,411	3,535,091	107,132,691	1959
1960	2,571,265	73,055,345	201,398	8,695,057	61,799	2,966,921	2,834,462	84,717,323	631,150	22,768,000	3,465,612	107,485,323	1960
1961	3,211,962	99,352,358	401,121	14,580,389	83,643	4,077,528	3,696,726	118,010,275	1,403,994	45,778,726	5,100,720	163,789,001	1961
1962	3,475,196	93,710,090	246,658	8,759,840	79,260	3,561,098	3,801,114	106,031,028	1,816,585	52,751,840	5,617,699	158,732,868	1962
1963	2,650,199	67,109,620	569,579	17,382,900	69,799	3,145,849	3,289,577	87,638,369	1,203,271	34,613,527	4,492,848	122,251,896	1963
1964	3,549,379	87,530,030	130,329	4,755,873	79,603	3,480,322	3,759,311	95,766,225	1,255,308	43,676,000	5,014,619	139,442,225	1964
1965	3,310,064	106,041,505	248,882	9,915,359	113,489	4,975,716	3,672,435	120,932,580	913,957	35,060,000	4,586,392	155,992,580	1965
1966	3,976,957	119,048,988	274,363	11,409,197	92,727	4,119,485	4,344,047	134,577,670	1,819,215	64,061,552	6,163,262	198,639,222	1966
1967	1,464,006	52,081,517	485,051	18,631,135	123,213	5,408,690	2,072,270	76,121,342	1,465,708	57,141,000	3,537,978	133,262,342	1967
1968	3,168,127	103,411,623	140,368	6,100,705	48,644	2,205,942	3,357,139	111,718,270	1,746,457	65,481,973	5,103,596	177,300,243	1968
1969	2,252,022	84,676,144	203,422	9,452,463	64,306	3,096,920	2,519,750	97,225,527	624,153	30,110,000	3,143,903	127,335,527	1969
1970	3,564,508	124,577,532	189,383	10,323,798	58,268	3,330,040	3,812,159	138,231,370	1,423,882	58,908,000	5,236,041	138,290,278	1970
1971	2,899,011	107,981,152	463,132	23,275,554	151,017	6,719,640	3,513,160	137,976,346	1,404,005	65,803,000	4,917,165	203,779,346	1971
1972	1,705,326	75,293,999	190,334	11,925,259	34,993	1,933,916	1,930,653	89,153,174	1,172,752	55,134,000	3,103,405	144,287,174	1972
1973	1,209,757	86,416,654	304,934	28,499,916	32,213	3,192,098	1,546,904	118,108,668	1,550,114	127,065,000	3,097,018	245,173,668	1973
1974	1,343,254	98,860,487	578,009	45,250,006	56,331	4,603,063	1,977,594	148,713,561	1,428,882	114,312,000	3,406,476	263,025,561	1974
1975	1,383,900	95,423,802	162,204	14,293,000	9,126	697,000	1,555,230	110,413,622	517,370	43,252,000	2,072,600	153,665,802	1975
1976	2,469,530	178,284,574	135,518	13,946,000	5,850	627,000	2,610,898	192,857,574	1,025,830	91,733,000	3,636,728	284,590,574	1976
1977	2,594,659	188,834,352	230,905	20,646,000	1,554	228,000	2,827,118	209,708,352	1,346,967	122,987,000	4,174,085	332,695,352	1977
1978	2,921,565	211,357,826	11,292	913,000	2,394	380,000	2,935,251	212,650,826	1,126,876	115,913,000	4,062,127	328,563,826	1978
1979	3,048,800	253,068,900	144,041	15,765,476	170	25,075	3,193,011	268,859,451	955,225	115,927,000	4,148,236	384,786,451	1979
1980	4,131,800	370,642,100	26,053	5,119,000	263	30,000	4,158,116	375,791,100	1,114,426	146,828,000	5,272,542	522,619,000	1980
1981	4,431,925	405,322,000	202,732	17,336,000			4,634,657	422,658,000	1,800,545	237,391,000	6,435,202	660,049,000	1981
1982	2,342,541	187,629,882	96,653	12,267,857			2,439,194	199,897,739	815,464	133,892,471	3,254,658	333,790,210	1982

*1941-1958 totals include small California pack. *Steelhead included. Value in Canadian funds. Note: 1982 data are preliminary.
Source: State and provincial fisheries agencies, National Food Processors Association, *Seafood Business Report.*

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1982 Fresh and Frozen Salmon and Salmon Roe

(TROLL: DRESSED POUNDS; NET: WHOLE POUNDS; ROE: FINISHED POUNDS)

COMPANY AND LOCATION	TROLL CAUGHT SALMON, SOLD Frozen	Fresh	NET SALMON, SOLD Frozen	Fresh	TOTAL SALMON	SALMON ROE
ALASKA						
Alaska Far East Corp., *Naknek*			1,500,000		1,500,000	42,300
Alaska Ocean Products, Inc., *Kasilof*			1,735,000	828,000	2,563,000	67,000
Alaska Packers Assn., Inc., *Chignik*			2,736,852*		2,736,852	18,500
Clark's Point			2,030,350*		2,030,350	
Cordova			1,987,461*		1,987,461	223,500
Total			6,754,663		6,754,663	242,000
American Eagle Seafoods, Inc.,						
M/V Aleutian Dragon			1,427,966*		1,427,966	57,288
Annette Island Packing Co., *Metlakatla*	287,308				287,308	280,918
Bumble Bee Seafoods, *S. Naknek*			1,086,929		1,086,929	
Columbia Wards Fisheries, *Alitak*			2,723,336		2,723,336	
Ekuk			2,306,629		2,306,629	
Kenai			5,233,926		5,233,926	
Kodiak			156,525		156,525	
Port Bailey			960,718		960,718	
Total			11,381,134		11,381,134	
Diamond E Fisheries, *Egegik*						63,000
Egegik Seafoods, *Egegik*						31,000
Excursion Inlet Packing Co.,						
Excursion Inlet	773,672		4,150,627		4,924,299	
Great Alaskan Fish Co., *P/V Great Alaskan*			437,954		437,954	7,097
Harbor Seafoods Co., Inc., *Wrangell*	166,239		1,419,466		1,585,705	27,214
Icicle Seafoods, Inc., *Homer*			7,215,236	91,200	7,306,436	435,680
Petersburg	1,112,010	9,487	8,343,714	85,312	9,550,523	877,130
Seward			6,698,307	837,492	7,535,799	812,044
P/V Arctic Star			8,449,286		8,449,286	258,709
P/V Bering Star			5,421,423		5,421,423	209,875
Total	1,112,010	9,487	36,127,966	1,014,004	38,263,467	2,593,438
International Seafoods of Alaska, *Kodiak*			3,000,000		3,000,000	120,000
Jonah, Inc., *M/V Phoenix & M/V Victoria M*			3,500,000	600,000	4,100,000	30,000
Juneau Cold Storage Co., Inc., *Juneau*	420,000		2,280,000		2,700,000	50,900
Kachemak Seafoods, Inc., *Togiak*			780,000*	100,000*	880,000	70,000
Keener Packing Co., Inc., Soldotna			732,381*		732,381	133,600
Kodiak King Crab, Inc., *Kodiak*			4,902,400		4,902,400	741,200
Larsen Bay Seafoods, Inc., *Larsen Bay*						345,598
Nana Seafoods, *Kotzebue*			1,519,366		1,519,366	
Nelbro Packing Co., *Naknek*			536,495		536,495	48,301
Petersburg			358,641		358,641	220,277
Total			895,136		895,136	268,578
Northern Products Corp., *various*	1,034,130		169,531		1,203,661	20,362
Northern Seafoods, Inc., *Anchorage*			1,000,000		1,000,000	300,000
Ocean Beauty Alaska, Inc./Ketchikan						
Cold Storage, *Ketchikan*	428,000		1,992,000		2,420,000	40,450
Ketchikan Cannery						112,044
Uganik						140,100
Total	428,000		1,992,000		2,420,000	292,594
Pan Alaska Fisheries, Inc., *Dutch Harbor,*						
M/V Royal Sea, M/V Royal Venture			7,536,817		7,536,817	385,858
Pederson Point, *Pederson Point*	40,800		1,056,000		1,096,800	
Peter Pan Seafoods, Inc., *Dillingham*				286,834	286,834	
King Cove			7,559,374		7,559,374	
Port Moller			6,865,788		6,865,788	
Custom Processed			1,259,480		1,259,480	
Total			15,684,642	286,834	15,971,476	
Red Salmon, *Naknek*			1,086,929		1,086,929	
Sea-Alaska Products, Inc.,						
F/P Robert E. Resoff						55,606
F/P Sea Alaska						31,452
F/P Sea Producer						7,158
Total						94,216
Seafood Producers Cooperative, *Sitka*	2,521,415	45,000	844,754	72,000	3,483,169	55,000
Sea-Nik Foods, *Ninilchik*			750,000		750,000	20,000
Seawest Industries, Inc., *M/V Akutan,*						
M/V Arctic Command, M/V Western Sea			1,200,000		1,200,000	
Sitka Sound Seafoods, Inc., *Sitka*	2,572,510	224,000		1,090,778	3,887,288	70,000
St. Elias Ocean Product, *Cordova*			3,378,000	508,700	3,886,700	512,691
Steuart Seafoods, Inc., *Everett*			1,000,000	400,000	1,400,000	36,000
Trident Seafoods Corp., *M/V Billiken,*						
M/V Bountiful, P/V Neptune,						
M/V Tempest, and Akutan			10,104,790		10,104,790	
Ursin Seafoods, Inc., *Kodiak*			317,103		317,103	9,892
Western Alaska Fisheries, *Kodiak*			6,500,000		6,500,000	300,000
Whitney Fidalgo Seafoods, Inc.,						
Anchorage Cold Storage			5,109,340	481,384	5,590,724	243,346
Ketchikan			5,161		5,161	311,497
Kodiak			2,100		2,100	
Mokuhana			547,453		547,453	11,775
Naknek						60,508
Port Graham						135,832
Petersburg	102,512	3,080	493,845	61,442	660,879	21,383
Uyak						127,357
Yardarm Knot			4,809,155		4,809,155	
Total	102,512	3,080	10,967,054	542,826	11,615,472	911,698
Yakutat Seafoods, *Yakutat*	96,000		1,971,000	140,000	2,207,000	73,000
TOTAL ALASKA	9,554,596	281,567	149,189,608	5,583,142	164,608,913	8,282,442

COMPANY AND LOCATION	TROLL CAUGHT SALMON, SOLD Frozen	Fresh	NET SALMON, SOLD Frozen	Fresh	TOTAL SALMON	SALMON ROE
BRITISH COLUMBIA						
Central Native Fishermen's Cooperative, *Vancouver*	1,200,000	100,000	2,450,000		3,750,000	90,000
J.S. McMillan Fisheries, Ltd., *Vancouver & Prince Rupert*	1,860,000	140,000	1,100,000	60,000	3,160,000	2,000
Millerd Fisheries Ltd., *North Vancouver*	20,000		1,500,000	50,000	1,570,000	60,000
Prince Rupert Fishermen's Cooperative, Assn., *Prince Rupert*	2,189,134	2,866	3,420,846	17	5,612,863	
Tonquin Enterprises Ltd., *Vancouver*	600,000	200,000			800,000	
TOTAL BRITISH COLUMBIA	5,869,134	442,866	8,470,846	110,117	14,892,863	152,000
WASHINGTON						
Arrowac Fisheries, *Bellingham*			1,237,486		1,237,486	62,000
Bumble Bee Seafoods, *Bellingham*			549,541	125,652	675,193	60,455
Guilford Packing Co., Inc., *Port Townsend*			15,000	122,198	137,198	
Harbor Bell, Inc., *Bay Center*				96,750	96,750	9,500
Mutual Fish Co., Seattle	3,000	5,000	15,000	10,000	33,000	
Sea K Fish Co., Inc., *Blaine*			1,010,108	360,471	1,370,579	62,068
Seafarms Pacific, *Port Angeles & Blaine*	120,000	80,000	1,750,000	1,200,000	3,150,000	45,000
Seattle Seafoods, Inc., *Seattle*			1,259,331		1,259,331	
Seawest Industries, Inc., *Bellingham*			2,735,000		2,735,000	
Steuart Seafoods, Inc., *Everett*			1,000,000	400,000	1,400,000	36,000
Washington Crab Producers, Inc., *Westport*		557,525		1,027,965	1,585,490	284
Washington Fish & Oyster Co., *Seattle*	78,000		926,000		1,004,000	
Whitney Fidalgo Seafoods, Inc., *Anacortes*			712,853	6,631	719,484	16,828
TOTAL WASHINGTON	201,000	642,525	11,210,319	3,349,667	15,403,511	292,135
OREGON						
Bell Buoy Crab Co., *Seaside*	1,000	5,000	45,000	10,000	61,000	2,000
CALIFORNIA						
Andria's Seafood Specialties, Inc., *Santa Barbara*		36,256			36,256	
California Sunshine Fine Foods, Inc., *Sacramento*						5,000
Grader Fish Co., *Ft. Bragg*		239,223			239,223	193
Meredith Fish Co., *Sacramento*	750,000	250,000			1,000,000	2,000
Paladini Seafood Co., *San Francisco*	800,000	250,000			1,050,000	
Tom Lazio Fish Co., Inc., *Eureka*	432,166	48,018			480,184	750
TOTAL CALIFORNIA	1,982,166	823,497			2,805,663	7,943

*Note: Dressed
Source: *Seafood Business Report*

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1982 Alaska Salmon Landings

(THOUSANDS OF FISH)

MANAGEMENT AREA	KING	RED	COHO	PINK	CHUM	TOTAL
SOUTHEASTERN REGION						
Southern Southeast						
Gillnet:						
Portland Canal	2.7	187.1	26.4	347.0	82.1	645.5
Prince of Wales Island	1.8	185.3	40.5	23.6	16.5	267.9
Stikine River	.9	6.3	17.7	16.9	.7	42.6
Southern Districts Seine	25.9	367.4	285.7	11,143.6	599.0	12,421.8
Annette Island Trap & Gillnet	.7	59.9	13.4	661.7	24.9	761.0
Southern Southeast Total	32.4	806.1	383.9	12,193.0	723.5	14,138.8
Northern Southeast						
Gillnet:						
Taku-Snettisham	2.8	78.5	28.1	100.0	34.9	245.5
Lynn Canal	5.1	255.6	62.9	51.9	284.3	660.0
Yakutat	1.5	214.7	135.7	9.4	5.9	367.4
Northern Districts Seine	2.5	70.9	80.7	11,033.7	133.5	11,321.5
Northern Southeast Total	12.0	619.9	307.5	11,196.1	458.8	12,594.4
Southeastern Region Troll	242.0	2.5	1,300.0	480.0	5.6	2,030.1
SOUTHEASTERN REGION TOTAL	286.5	1,428.6	1,991.5	23,869.1	1,187.9	28,763.3
CENTRAL REGION						
Cordova area						
Copper River	49.1	1,193.5	452.8	6.8	.4	1,702.8
Bering River	.2	131.6	144.9		.3	277.2
Prince William Sound	.1	56.2	17.2	17,622.3	952.6	18,648.4
PWS Hatcheries				1,319.5		1,319.5
Coghill		925.7	.1	1,225.0	391.4	2,559.5
Unakwik		65.3		89.1	1.0	138.8
Cordova area total	49.4	2,372.6	615.2	20,263.0	1,346.0	24,646.5
Cook Inlet area						
Upper Cook Inlet						
Northern Dist.	2.3	110.1	77.4	72.8	36.7	299.5
Central Dist.	16.6	2,902.7	643.3	653.3	1,289.7	5,506.0
Upper Cook Inlet total	18.9	3,012.9	720.7	726.4	1,326.5	5,805.6
Lower Cook Inlet total	1.0	134.9	44.9	552.0	198.0	931.0
Cook Inlet area total	19.9	3,147.8	765.7	1,278.4	1,524.5	6,736.6
Kodiak Island	1.2	1,180.0	343.3	8,076.2	1,245.0	10,845.7
Chignik	5.2	1,509.2	289.2	942.7	403.5	3,149.9
South Peninsula	8.0	2,208.0	249.0	6,601.0	2,219.0	11,285.0
CENTRAL REGION TOTAL	83.7	10,417.6	2,262.4	37,161.3	6,738.0	56,663.0
WESTERN REGION						
Bristol Bay						
Naknek-Kvichak	1.3	4,990.0	9.0	126.0	194.0	5,320.3
Nushagak	200.0	5,990.0	388.0	1,300.0	456.0	8,343.0
Egegik	5.0	2,414.0	64.0	2.0	82.0	2,567.0
Ugashik	7.0	1,161.0	34.0		50.0	1,252.0
Togiak	40.0	584.0	159.0	23.0	154.0	960.0
Bristol Bay Total	253.3	15,148.0	654.0	1,451.0	936.0	18,442.3
North Peninsula & Aleutian Islands Total	30.0	1,421.0	240.0	1,399.0	290.0	3,380.0
Arctic-Yukon-Kuskokwim						
Kuskokwim	79.7	97.6	569.0	18.1	325.1	1,089.9
Lower Yukon River	116.1		29.0		634.1	779.3
Upper Yukon River	5.6				27.6	33.3
Norton Sound	5.9		91.6	230.3	183.4	511.4
Kotzebue					417.7	417.8
Arctic-Yukon-Kuskokwim Total	207.6	97.6	689.8	248.5	1,588.9	2,831.9
WESTERN REGION TOTAL	490.9	16,666.6	1,583.8	3,098.5	2,814.9	24,654.7
ALASKA TOTAL	861.4	28,512.8	5,837.7	64,128.9	10,740.8	110,081.3

Note: Data are preliminary.
Source: ADF&G

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Alaska Canned Salmon Packs by

(48-LB CASE EQUIVALENTS)

	SOUTHEAST ALASKA							CENTRAL ALASKA							
YEAR	Pl	Red	Pink	Chum	Coho	King	Total Cases	Pl	Red	Pink	Chum	Coho	King	Total Cases	YEA
1940	46	125,462	1,452,037	484,476	155,577	1,539	2,219,091	42	384,266	1,441,266	343,072	126,878	18,359	2,314,475	194
1941	47	137,861	3,631,491	321,118	193,751	1,812	4,286,033	44	413,658	1,005,029	333,618	159,023	30,825	1,942,153	194
1942	47	121,083	1,758,741	597,373	189,210	2,033	2,668,779	44	352,475	1,051,359	328,860	180,698	34,916	1,948,308	194
1943	34	85,313	1,042,610	672,359	92,245	1,868	1,894,395	34	582,287	1,277,915	167,909	66,311	37,421	2,131,743	194
1944	38	131,580	1,081,344	655,188	88,380	1,765	1,958,247	45	461,718	1,198,665	286,498	96,255	29,718	1,876,245	194
1945	41	129,414	1,039,521	265,845	107,425	2,582	1,544,887	43	434,872	1,002,056	331,654	85,506	30,041	2,080,738	194
1946	41	59,029	999,443	321,037	94,074	1,612	1,475,195	48	350,728	1,053,605	257,909	96,301	25,356	1,783,899	194
1947	40	56,032	680,693	260,666	72,434	4,019	1,073,844	47	470,056	1,034,475	196,731	74,388	34,790	1,810,430	194
1948	39	39,317	683,972	403,959	165,033	5,973	1,298,254	57	318,638	616,822	291,977	69,259	34,774	1,331,470	194
1949	36	39,475	2,102,604	243,080	125,059	1,046	2,511,274	55	391,244	580,438	221,089	59,409	37,213	1,289,393	194
1950	36	49,475	535,662	500,422	116,344	560	1,202,463	55	513,985	558,263	242,301	68,233	40,386	1,423,158	195
1951	42	70,317	1,226,582	466,334	262,393	636	2,028,262	59	362,554	333,091	227,632	72,762	71,648	1,067,687	195
1952	40	74,510	593,422	527,960	122,277	2,756	1,320,925	48	377,094	577,406	399,864	67,117	34,935	1,456,417	195
1953	35	120,971	355,580	418,260	90,489	1,571	986,871	40	330,933	604,291	333,390	36,730	33,160	1,338,494	195
1954	27	113,130	519,364	601,800	87,996	2,642	1,324,932	39	299,325	621,214	381,536	77,041	28,257	1,407,373	195
1955	26	55,561	547,765	177,690	64,814	1,157	846,987	44	233,290	722,448	162,999	47,294	22,078	1,188,109	195
1956	23	80,855	565,076	267,934	44,030	2,082	959,977	44	357,242	547,775	375,417	47,525	22,082	1,350,041	195
1957	23	82,511	404,221	362,715	53,373	1,358	904,178	36	179,986	331,873	432,797	28,282	17,722	988,660	195
1958	21	81,867	702,899	356,611	51,300	843	1,193,520	39	130,889	818,063	357,059	39,859	9,174	1,355,044	195
1959	17	61,702	472,684	162,948	60,013	1,374	758,721	27	161,251	162,229	203,000	35,185	11,736	573,410	195
1960	32	44,684	139,998	112,924	19,167	1,019	317,792	41	284,951	529,675	365,842	53,460	13,188	1,247,116	196
1961	25	66,132	831,576	278,572	47,309	463	1,224,052	35	302,972	425,723	193,168	32,577	17,797	972,237	196
1962	29	62,586	600,576	220,907	49,694	1,142	934,905	34	326,498	1,238,360	382,126	51,374	14,154	2,012,577	196
1963	30	52,018	959,147	149,175	55,192	401	1,215,933	39	208,978	609,235	231,016	69,304	11,803	1,130,336	196
1964	34	70,735	900,425	217,148	73,880	494	1,262,682	31	271,997	959,927	400,420	85,956	5,270	1,723,570	196
1965	25	74,900	486,000	130,100	73,300	600	764,900	31	405,900	394,300	139,600	28,400	6,800	975,000	196
1966	22	76,279	1,108,692	313,155	63,016	796	1,561,938	25	423,073	812,208	240,592	50,650	5,218	1,531,741	196
1967	20	64,684	164,962	175,814	25,488	207	431,155	25	283,504	164,154	119,099	37,878	3,997	608,632	196
1968	21	56,652	971,816	296,824	45,756	866	1,371,914	27	360,470	701,701	303,688	67,855	3,341	1,437,055	196
1969	21	35,497	231,105	32,705	8,824	302	308,433	29	311,605	992,286	124,146	13,723	6,106	1,446,866	196
1970	21	28,481	487,208	142,472	17,396	196	675,753	27	559,618	824,537	242,123	34,178	1,014	1,661,470	197
1971	19	41,731	448,452	159,891	36,581	443	687,098	23	371,968	626,095	379,948	45,050	1,746	1,424,807	197
1972	21	58,978	447,085	206,265	33,632	2,152	748,112	23	286,053	150,702	224,453	14,103	765	676,076	197
1973	16	39,450	313,420	82,358	13,252	864	449,344	24	243,265	157,279	219,703	16,132	1,022	637,401	197
1974	16	56,023	265,497	136,247	23,260	644	481,671	16	289,740	209,752	138,721	28,219	2,739	669,171	197
1975	11	7,167	186,124	80,947	3,728	274	278,240	15	173,082	365,631	99,750	45,052	584	684,099	197
1976	14	14,500	279,439	24,346	4,776	153	331,070	23	449,625	815,553	215,980	25,492	2,039	1,508,689	197
1977	12	27,398	652,577	14,640	4,668	72	699,355	18	429,607	688,857	292,338	14,579	969	1,426,350	197
1978	13	10,559	599,781	11,980	7,841	833	630,994	22	298,502	929,119	201,290	15,767	1,556	1,446,234	197
1979	13	14,100	356,600	3,800	4,100	500	379,100	22	309,400	1,440,900	100,900	27,900	700	1,879,800	197
1980	10	36,100	588,100	39,800	9,900	200	674,100	21	530,400	1,467,900	228,800	24,800	500	2,252,400	198
1981	8	92,433	789,077	28,304	9,326	433	919,573	21	477,538	1,710,397	512,639	25,900	805	2,727,279	198
1982	10	12,289	720,224	12,744	4,925	223	750,955	22	95,281	1,014,851	157,655	19,754	280	1,287,821	198

*Number of plants.
Source: National Food Processors Association (figures are compiled from the portion of the pack examined by NFPA).

SALMON (cont. from page 50)
landings was canned, compared with 55 percent in 1981.

The pack for all species was down, the most notable declines in the size of the red, chum and king salmon packs. Soft markets were not the only cause for the small size of the 1982 red salmon pack. In Bristol Bay, where the bulk of the red salmon run is harvested, the total return of 22.2 million sockeye was 65 percent of the preseason forecast of 34.6 million. Only 15.1 million reds were harvested in Bristol Bay, because of the longest fishermen-processor price dispute in the bay's history.

A total of 27.1 million reds is expected to return to Bristol Bay in 1983. The harvest projection has been set at 21.7 million sockeye, still considerably higher than the average peak-year harvest of 17.4 million.

Soft markets and the lingering problem of high canned salmon inventories account for the fall in 1982's U.S. canned salmon pack value. Averaging across species and can sizes, a case of canned salmon was valued at $91.20 in 1981. The 1982 average case value is $81.90. Only the wholesale price of a case of red talls increased significantly over last year, reflecting its limited supply.

There was no significant activity in the foreign canned salmon market. U.S. exports in 1982 were a third lower than 1981 levels. Over 63 million pounds of canned salmon were exported in 1981, compared with 41 million in 1982.

Packers are a bit more optimistic about 1983's canned salmon sales. The Alaska Seafood Marketing Institute (ASMI) has invested $3.2 million in a U.S. canned salmon advertising campaign and another $1.5 million in European promotion. Evans-Pacific, ASMI's advertising coordinator, has been promoting and monitoring canned salmon sales in the major markets and has found slightly higher canned salmon sales as a result of the national media campaign.

Exports of fresh and frozen salmon increased to 250 million pounds in 1982, versus 200 million pounds in 1981. Increased exports of frozen pinks and reds account for the majority of the gain.

Cold storage holdings of salmon will need more than moderate increases in exports in 1983. Holdings as of December 31 were estimated at 48.7 million pounds, compared with 27.3 million pounds for the same date in 1981. Coho and chum cold storage holdings have tripled. Japan's large catch of chum off Hokkaido has not helped the U.S. market.

Imports of farm-reared salmon from Norway have increased dramatically. Imports of fresh Norwegian salmon in 1982 totaled 1,580,752 pounds, compared with 10,854 pounds in 1981. Imports of fresh or frozen Norwegian salmon steaks and fillets have also increased, from 15,956 pounds in 1981 to 456,356 pounds in 1982. Most of Norway's salmon is exported by air freight and sold fresh

Districts and Species

(48-LB CASE EQUIVALENTS)

	WESTERN ALASKA								
PI	Red	Pink	Chum	Coho	King	Total Cases	PL*	TOTAL CASES	YEAR
1	443,653	14,088	32,991	1,675	2,405	494,812	99	5,028,378	1940
9	613,369	129	55,771	3,439	5,609	678,317	105	6,906,503	1941
7	438,111	8,550	16,556	2,629	6,178	472,024	98	5,089,109	1942
14	1,314,575	1,532	42,410	178	11,676	1,370,371	81	5,396,509	1943
13	987,459	3,932	44,039	2,418	5,456	1,043,304	94	4,877,796	1944
8	609,132	1,623	92,551	3,103	9,086	715,495	92	4,338,692	1945
20	656,141	4,073	38,209	2,686	10,906	712,015	108	3,971,109	1946
21	1,350,151	8,449	42,914	1,893	14,885	1,418,192	107	4,302,466	1947
24	1,277,508	3,250	78,725	7,507	13,989	1,308,888	120	4,010,612	1948
21	529,859	—	44,140	4,411	11,974	590,384	112	4,391,051	1949
21	509,048	1,609	35,056	6,924	13,375	647,012	112	3,272,643	1950
13	339,592	75	25,521	8,003	15,328	388,519	114	3,534,315	1951
21	729,560	1,339	38,836	7,692	19,359	796,786	109	3,574,191	1952
19	530,186	1,108	45,398	2,703	20,810	600,205	94	2,934,667	1953
12	393,201	9,835	42,890	6,228	22,695	474,849	78	3,207,154	1954
12	372,756	90	22,968	2,476	24,583	422,873	79	2,457,969	1955
11	577,461	3,198	31,683	4,385	22,889	639,616	78	2,950,354	1956
13	484,499	2	31,142	5,078	29,150	549,871	72	2,442,710	1957
17	269,159	60,817	42,563	12,966	40,924	426,429	71	2,974,993	1958
9	361,550	32	49,378	3,091	32,157	446,208	53	1,770,795	1959
35	854,807	12,055	103,569	3,073	32,853	1,006,357	108	2,571,265	1960
31	926,441	—	51,828	1,980	35,424	1,015,673	91	3,211,962	1961
32	361,226	39,553	88,687	5,252	32,996	527,714	95	3,475,196	1962
24	218,445	1,909	52,504	5,790	25,282	303,930	93	2,650,199	1963
22	372,928	67,879	85,301	5,024	31,995	563,127	87	3,549,379	1964
26	1,464,300	—	31,500	400	42,300	1,538,500	82	3,310,064	1965
22	737,948	95,071	31,658	3,251	28,818	896,746	69	3,990,425	1966
19	334,177	8	45,983	3,143	40,908	424,219	64	1,464,006	1967
18	209,694	73,004	32,972	4,318	39,170	359,158	66	3,168,127	1968
19	440,276	33	26,037	1,793	28,584	496,723	69	2,252,022	1969
19	1,117,372	16,787	65,351	1,804	25,971	1,227,285	67	3,564,508	1970
14	694,507	—	61,914	939	29,746	787,106	56	2,899,011	1971
17	197,495	5,002	60,005	1,552	17,084	281,138	67	1,705,326	1972
13	61,429	—	51,946	2,464	7,173	123,012	56	1,209,757	1973
7	87,723	39,550	44,587	7,615	12,937	192,412	39	1,343,254	1974
11	373,038	800	40,305	286	7,132	421,561	37	1,383,900	1975
18	431,376	42,242	127,134	2,600	34,275	637,627	55	2,477,386	1976
12	304,653	853	153,215	2,676	7,557	468,954	42	2,594,659	1977
15	579,001	162,775	86,969	2,974	12,618	844,337	50	2,921,585	1978
15	721,300	14,200	35,000	10,400	9,000	789,900	50	3,048,800	1979
14	821,000	201,400	164,000	11,200	7,400	1,205,000	45	4,131,800	1980
13	700,188	728	76,312	1,332	6,513	785,073	42	4,431,925	1981
13	195,755	75,862	21,880	7,997	2,271	303,765	45	2,342,541	1982

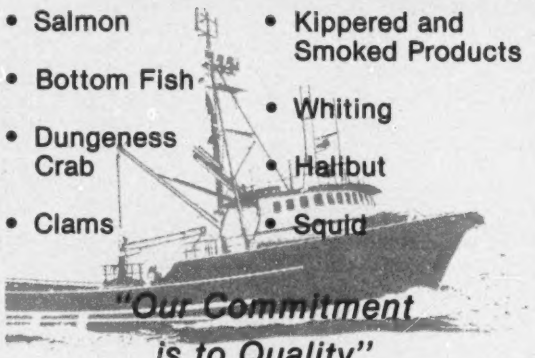
Note: 1982 data are preliminary.

within 24 hours of harvest. Norwegian salmon has been cutting into Alaska's fresh and frozen salmon market on the East Coast. By 1990, Norway may be producing 110.2 million pounds, a 10-fold increase from her 1980 harvest. For comparison, Alaska landed 554 million pounds in 1982.

As the 1983 salmon season approaches, and with both freezers and warehouses full of salmon, the salmon industry expects to can and freeze as usual. Processors hope the European market for canned salmon will improve.

STEUART

Seafoods, Inc.



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Pacific Salmon Landings — Commercial Fisheries

(THOUSANDS OF FISH)

	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982
Alaska												
Chinook	662	553	550	558	455	532	463	800	810	670	817	862
Sockeye	14,180	6,590	4,490	4,878	7,455	11,783	11,908	17,773	28,366	33,210	36,367	28,513
Coho	1,448	1,831	1,457	1,861	1,014	1,432	1,319	2,295	3,053	3,070	3,417	5,838
Pink	23,528	15,920	9,802	9,859	12,984	24,750	25,880	51,492	48,549	63,446	58,165	64,129
Chum	7,679	7,065	6,020	4,729	4,322	5,924	6,835	6,335	5,780	9,887	12,659	10,740
TOTAL	**47,497**	**31,959**	**22,319**	**21,886**	**26,229**	**44,423**	**46,405**	**78,695**	**86,559**	**110,283**	**111,425**	**110,082**
British Columbia												
Chinook	1,591	1,550	1,425	1,467	1,413	1,541	1,497	1,367	1,334	1,242	1,133	N/A
Sockeye	6,305	3,573	7,600	7,225	2,272	4,812	6,348	7,209	5,693	3,130	8,441	
Coho	4,789	3,357	3,531	3,729	2,330	3,701	3,339	3,347	3,651	3,355	2,825	
Pink	8,454	14,217	6,510	7,374	4,634	10,346	10,358	10,487	11,826	8,178	18,086	
Chum	1,262	6,074	6,241	2,202	1,145	1,900	1,089	2,971	866	3,332	1,122	
TOTAL*	**22,414**	**28,790**	**25,317**	**22,003**	**11,803**	**22,310**	**22,463**	**25,390**	**23,378**	**19,249**	**31,621**	
Washington												
Chinook	522	473	663	372	588	554	573	470	378	379	431	454
Sockeye	3,073	1,161	2,687	2,511	1,691	1,334	1,869	1,394	1,690	548	1,328	2,867
Coho	937	779	1,126	1,275	1,175	900	1,062	985	952	1,649	1,250	1,682
Pink	2,478	—	2,363	—	1,330	—	2,034	—	3,933	2	4,136	1
Chum	182	894	607	463	215	823	471	1,290	126	948	542	1,064
TOTAL	**7,192**	**3,307**	**7,446**	**4,621**	**4,999**	**3,611**	**6,009**	**4,139**	**7,079**	**3,526**	**7,087**	**6,068**
Oregon												
Chinook	103	127	363	224	225	184	340	192	340	276	194	378
Coho	1,490	825	796	1,137	657	1,827	446	612	809	472	660	724
TOTAL	**1,593**	**952**	**1,159**	**1,361**	**882**	**2,011**	**786**	**804**	**1,149**	**748**	**854**	**1,102**
California												
Chinook	434	492	817	492	579	540	563	519	659	575	549	764
Coho	442	158	348	656	204	622	35	238	164	50	78	90
TOTAL	**876**	**650**	**1,165**	**1,148**	**783**	**1,162**	**598**	**757**	**823**	**625**	**627**	**854**

*Steelhead included.
Note: 1982 data are preliminary.
Source: State and provincial fisheries agencies

Canned Salmon Prices

YEAR	SOCKEYE PUGET SOUND	RED ALASKA		KING ALASKA	COHO		PINK		CHUM		YEAR
	Halves	Talls	Halves	Talls	Talls	Halves	Talls	Halves	Talls	Halves	
1951	$19-21	$29-31	$18	$26	$25	$15	$21	$12.50	$18	$11	1951
1952	20-19	27-30	17.50-18	25	21-22	12-13	18-20	12	16	9	1952
1953	18.50-17.50	27	17	24	20	12	18	10.20-10.50	14	8-8.50	1953
1954	18.50-16.50	28-29	16-18	25	23	13.50	20	12.50-13	15	9	1954
1955	20-21	32-33	18.50-19.70	28	26	15	22-23	13.50-14.50	18	10-10.50	1955
1956	23-24	33-34	21-23	29-30	28-29	16	23-24	13-14.50	21	11.50-12	1956
1957	23-24	33-34	21-22	28-29	27-28	15-16	23	13	19-21	11.50-12	1957
1958	19-21	33-35	18-21	28-29	27-28	15-16.50	21	13-13.50	17	11-11.50	1958
1959	24-25	26-37	23-24	29-30	29-32	18-18.50	24-25	13.50-14	21	11.50-12	1959
1960	24-25	36-37	24-25	31-32	31	18.50-19	24-25	13.50	22.50	12-12.50	1960
1961	25	34-37	21.50-25	—	31-32	18.50-20	28	16-16.50	25-26	14.50	1961
1962	25	34	21-23	30-32	30-32	18-20	25-24	15	23	14	1962
1963	25-26	37	24-25	30-31	30-31	17.50-18	22-24	15	21	13-14	1963
1964	26-27	36-40	23-26	30	30-31	16-18	19-23	13-14	17.50-18.50	11.50-13	1964
1965	26	35-37	23-26	30-31	28-30	17-18	26-28	16-18	22-23	13-14	1965
1966	26	36-37	21-25	30-31	30	18-19	28	18	25	13-14	1966
1967	25-26	39-40	24-25.50	30-31	32-34	18-19	30-31	18	26-27	13.50-15	1967
1968	23-26	40-42	20-21	34	33-34	18-19	31	17-18	28	15-16	1968
1969	26.50-29	44.50-46	26.50-28	35-38	36-38	36-38	21-22	32-33	29	16-17	1969
1970	26.50-29	39-41	25.50-28	26-39	36-38	21-23	33-34	20-21	29-30	16-18	1970
1971	31-33	46	28-30	38-39	37-38	23-24	36	20-21	31-32	16-18	1971
1972	35-36	56-57	34-35	—	47-48	27	45	25	40	21	1972
1973	112	110-112	56-58	106	105	53-54	69-72	36-38	64-66	34-36	1973
1974	52	100	50	75-80	84-86	42-45	68-72	38-39	64-66	34-36	1974
1975	50	76-80	46-50	76	70-74	38-40	68-70	36-38	58-60	30-32	1975
1976	52-58	82-86	52-58	—	70-76	38-44	68-70	38-40	58-62	30-34	1976
1977	56-62	90-96	56-62	78	72-78	43-48	62-72	36-40	55-60	29-34	1977
1978	59-62	92-96	59-62	80	72-76	44-47	60-68	35-39	56-60	31-34	1978
1979	66	104-112	67-72	75	82-88	48-54	76-80	42-46	68-72	38-40	1979
1980	76	110-115	72-76	88	86-90	53-56	78-84	44-48	72-76	40-44	1980
1981	80	110	75	—	91-94	52-58	76	45-46	65	38-42	1981
1982	68-72	120-128	66-80	95	95-98	52-54	66-78	36-42	50-60	28-36	1982

Note: Canned salmon prices above reported by Seattle canners and brokers are for top quality stock only. The figures above reflect prices at which the major portion of the pack was sold.
Source: NMFS and Whitney-Fidalgo.

Percent Alaska Salmon Canned Versus Percent Fresh, Frozen and Cured

YEAR	RED		PINK		CHUM		COHO		CHINOOK		TOTAL		YEAR
	Canned	Frozen	Canned	Frozen	Canned	Frozen	Canned	Frozen	Canned	Frozen	Canned	Frozen	
1971	91.38	.8.62	98.0	2.00	80.87	19.13	57.51	42.49	18.08	81.92	85.88	14.12	1971
1972	93.05	6.95	95.41	4.59	72.17	27.83	30.56	69.44	13.78	86.22	77.26	22.74	1972
1973	72.95	27.05	93.57	6.43	50.70	49.30	20.58	79.42	6.05	93.95	61.03	38.97	1973
1974	88.02	11.98	89.68	10.32	53.35	46.65	30.90	69.10	11.22	88.78	66.72	33.28	1974
1975	78.81	21.19	93.58	6.42	41.25	58.75	4.83	95.17	8.00	92.00	67.25	32.75	1975
1976	81.87	18.13	91.72	8.28	61.57	38.43	21.04	78.96	22.35	77.65	75.87	24.13	1976
1977	68.51	31.49	92.41	7.59	60.24	39.76	12.73	87.27	5.68	94.32	71.02	28.98	1977
1978	56.66	43.34	89.00	11.00	46.52	53.48	13.67	86.33	7.35	92.65	64.49	35.51	1978
1979	42.51	57.49	83.43	16.57	40.04	59.96	13.08	86.92	6.23	93.77	57.09	42.91	1979
1980	45.31	54.69	83.54	16.46	47.62	52.38	21.92	78.08	9.82	90.18	57.87	42.13	1980
1981	40.78	59.22	78.01	21.99	50.69	49.31	10.87	89.13	3.09	96.91	55.14	44.86	1981
1982	11.53	88.47	64.82	35.18	17.04	82.96	5.72	94.28	1.24	98.76	32.44	67.56	1982

Source: *Seafood Business Report*

1983 Alaska Salmon Harvest Forecasts

(MILLIONS OF FISH)

MANAGEMENT AREA	RED	PINK	CHUM	COHO	KING	TOTAL
Arctic-Yukon-Kuskokwim	.060	.40	2.720	.30	.190	3.67
Bristol Bay	21.700		1.000	.40	.200	23.30
Aleutian Islands	.005	.40	.005			.41
South Peninsula	1.800	4.50	1.300	.22	.010	7.82
North Peninsula	2.300		.400	1.40	.020	4.12
Chignik	.960	1.10	.300	.10	.002	2.46
Kodiak	1.000	12.60	1.100	.15	.002	14.85
Cook Inlet	1.600	2.70	.750	.26	.002	5.31
Prince William Sound	.780	16.90	.430	.28	.020	18.41
Southern Southeastern		12.40				
Northern Southeastern		1.10				
Southeastern Total	.800	13.50	1.000	1.00	.256	16.56
ALASKA TOTAL	31.000	52.10	9.000	4.11	.700	96.91

Source: ADF&G biologists
Note: ADF&G has predicted a total harvest of 95 million fish. Totals do not match because more areas are included in above data.

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Circle number 57 on the Reader Inquiry Card

1982 Washington Canned Salmon Pack

(48-POUND CASE EQUIVALENTS)

COMPANY	LOCATION	RED	PINK	CHUM	COHO	KING	TOTAL
Bumble Bee Seafoods	Bellingham	19,363					19,363
Guilford Packing Co., Inc.	Port Townsend	120			58		178
Kirkland Custom Cannery	Kirkland	141	15		32	23	211
Whitney Fidalgo Seafoods, Inc.	Anacortes	19,878	3,835	153	628		24,494

Source: *Seafood Business Report*

British Columbia Canned Salmon Packs

(48-LB. CASES)

YEAR	SOCK-EYE	SPRINGS	COHO	PINK	CHUM	TOTAL* CASES
1950	408,041	9,133	116,642	446,516	498,984	1,482,560
1951	428,299	13,698	312,845	736,093	461,806	1,956,397
1952	449,174	9,064	64,095	675,836	91,514	1,293,435
1953	510,147	13,048	110,164	794,764	394,113	1,825,267
1954	680,718	14,080	128,080	335,550	580,574	1,742,736
1955	244,821	17,853	185,723	831,253	124,860	1,406,100
1956	404,392	11,671	217,915	363,633	203,710	1,202,575
1957	228,452	10,481	217,915	751,608	239,539	1,449,120
1958	1,079,155	10,475	132,403	455,518	229,292	1,908,056
1959	256,170	15,231	213,106	458,596	133,128	1,077,097
1960	226,844	5,916	91,504	219,564	86,818	631,150
1961	398,205	7,921	241,378	666,290	95,385	1,410,157
1962	297,716	7,174	187,735	1,188,661	134,483	1,816,584
1963	158,375	10,000	146,099	757,452	119,190	1,191,887
1964	343,358	9,127	204,732	464,107	232,722	1,255,308
1965	245,798	18,891	295,284	287,925	65,216	913,957
1966	407,949	14,585	281,623	951,794	160,784	1,819,215
1967	558,892	14,679	146,677	650,142	94,022	1,465,708
1968	611,011	7,416	187,594	669,347	270,688	1,746,989
1969	359,608	5,301	57,947	154,188	46,524	624,153
1970	395,606	10,024	114,555	660,777	242,389	1,423,882
1971	568,756	11,653	221,463	502,324	98,508	1,404,005
1972	312,907	11,608	83,755	485,164	278,451	1,172,752
1973	642,601	11,258	116,197	355,695	423,364	1,550,114
1974	709,180	20,268	160,051	307,192	230,634	1,428,882
1975	164,055	14,013	61,081	240,592	37,093	517,370
1976	376,047	11,187	69,850	483,054	85,540	1,025,830
1977	494,172	29,569	74,180	686,911	61,309	1,346,967
1978	485,748	8,916	53,960	456,058	121,487	1,126,876
1979	295,818	12,953	43,061	569,337	33,689	955,225
1980	368,844	6,768	88,217	456,363	170,346	1,104,774
1981	648,401	7,910	62,957	1,105,915	89,462	1,915,131
1982	551,145	5,754	45,774	138,648	73,759	815,464

*Includes steelhead.
Source: Marine Resources Branch, Province of B.C.

B.C. Canned Salmon Export Prices

	SOCKEYE		PINK	
YEAR	½-lb. Flats 96's	¼-lb. Flats 96's	½-lb. Flats 96's	¼-lb. Flats 96's
1950	$ 33.00	$ 19.25	$ 19.00	$12.00
1951	28.00	21.50	20.50	12.75
1952	33.00	19.00	16.50	10.75
1953	30.00	17.50	16.50	10.75
1954	32.00	18.50	17.50	11.75
1955	37.00	21.50	19.50	12.75
1956	40.00	23.00	22.50	14.25
1957	40.00	23.00	22.50	14.25
1958	37.00	21.00	21.50	13.75
1959	46.00	27.00	24.50	16.25
1960	50.00	29.00	26.50	17.25
1961	44.00	26.00	26.50	17.27
1962	48.00	28.00	26.00	17.00
1963	50.00	30.00	23.50	15.00
1964	50.00	31.00	26.50	16.50
1965	50.00	29.00	30.00	18.00
1966	48.00	28.00	30.00	18.00
1967	48.00	28.00	31.00	18.00
1968	42.00-48.00	26.00	32.00	18.50
1969	55.00	31.00	38.00	22.00
1970	51.00	29.50	36.00	21.00
1971	54.00	32.00	36.00	21.00
1972	66.00	37.00	40.00	23.00
1973	100.00	56.00	72.00	40.00
1974	92.00	52.00	72.00	42.00
1975	110.00	60.00	72.00	40.00
1976	110.00	66.00	72.00	43.00
1977	114.00	68.00	74.00	47.00
1978	130.00	74.00	82.00	50.00
1979	156.00-160.00	92.00-96.00	96.00-102.00	58.00-62.00
1980	164.00	96.00	108.00	67.00
1981	170.00	100.00	112.00	68.00
1982	166.00	100.00	106.00	64.00

Note: All figures are opening prices subject to change FOB Vancouver, in Canadian Funds.
Source: Canadian Fishing Co.

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Pacific Packers Report **SHELLFISH:**

Climbing Prices Restrict Market

The Alaska shellfish industry is facing what may be the most difficult year in its history. Wholesale prices failed to climb enough to compensate for the record ex-vessel prices paid for crab, and inventories aren't moving. King crab stocks have declined to the point that processors are having problems moving enough product through their plants to make opening up worthwhile. And the outlook for 1983 is not encouraging.

Though cold storage holdings of king crab sections at the beginning of 1983 were lower than the holdings at the beginning of 1982, the reduction was the result of a drastically reduced harvest and, in terms of percentage of total crab delivered, represented a substantial increase.

The January 1983 cold storage holdings of king crab sections represented 32 percent of raw product delivered during 1982. In January 1982 the cold storage holdings represented only 17 percent of the total poundage delivered in 1981.

Between 1981 and 1982 ex-vessel king crab prices rose 75 percent, but wholesale prices FOB Seattle rose only 35 percent.

The almost total failure of the Bristol Bay red king crab fishery set off a round of speculative buying in Kodiak which drove ex-vessel prices above $4 per pound. January found the wholesale market balking at $8 per pound meat and $18 per pound sections.

Bristol Bay's king crab season was closed abruptly when biologists found 50 to 70 percent of the females had failed to molt and breed. Deliveries totaled only 3 million pounds instead of the expected 30 million pounds. Kodiak's stocks were lower than expected and deliveries totaled 10.5 million pounds. Total Alaskan king deliveries were about 39.3 million pounds, compared with 88 million pounds in 1981.

The 1983 harvest is expected to be about the same as 1982's. In Kodiak the projection is for 4 million pounds, half the 1982 harvest. If the Bristol Bay female king crab molt and breed this year, fishermen could harvest as much as 11 million pounds this fall. If the barren female king crab problem continues, Bristol Bay could remain closed during 1983.

• Tanner crab stocks are in better shape than king crab stocks, but the market is in serious trouble.

Though ex-vessel prices reached $1.85 a pound, nearly triple the price paid in 1981, wholesale prices — and inventory — barely moved between January 1982 and January 1983.

Cold storage holdings at the beginning of 1983 were triple the holdings at the beginning of 1982. All through 1982 processors remained hopeful the market would pick up, and Cook Inlet fishermen were able to negotiate a price of $1.35 per pound in December.

However, in January there was some dumping of tanner crab on the market, and Japanese buyers proved reluctant to sign contracts. Kodiak fishermen, who expected to receive

(continued on page 69)

1982 Alaska Shellfish Landings by Area

(THOUSANDS OF POUNDS)

AREA	KING CRAB	DUNGENESS CRAB	TANNER CRAB	HAIR CRAB	TRAWL SHRIMP	POT SHRIMP	SCALLOPS	OCTOPUS	OTHER*
Southeast	1,255	8,946	2,101	—	951	261	421	2	81
Prince William Sound	140	763	3,708	—	346	176	—	—	15
Cook Inlet	848	819	2,726	—	3,960	169	—	21	409
Kodiak	10,519	4,544	13,739	—	10,802	11	434	4	14
Chignik	55	239	2,858	—	—	—	120	—	—
South Peninsula	1,669	467	3,292	—	—	—	33	—	—
Dutch Harbor	3,206	37	732	7	342	—	62	1	—
Adak/Western Aleutians	5,137	—	1,068	—	—	—	—	—	—
Bering Sea	16,496	—	39,182•	1,213	—	—	—	—	—
TOTAL	39,325	15,815	68,777	1,220	16,401	617	1,008	28	519

*Other distribution: Southeast — abalone; Prince William Sound, Cook Inlet, Kodiak — razor clams
•Includes 28,334,000 pounds *opilio.*
Note: Data are preliminary.
Source: ADF&G

1982 West Coast Frozen Shellfish

(WHOLE POUNDS, IN SHELL)

COMPANY AND LOCATION	KING CRAB	TANNER CRAB *BAIRDI*	TANNER CRAB *OPILIO*	DUNGENESS CRAB	SHRIMP	SCALLOPS	CLAMS	OYSTERS	MISC.	TOTAL
ALASKA										
Alaska Packers Assn., Inc., *Chignik*	51,300	1,918,735		126,800						2,096,835
Columbia Wards Fisheries, *Alitak*	95,146									95,146
Kodiak	313,455	454,411								767,866
Total	408,601	454,411								863,012
Dutch Harbor Seafoods, Ltd. *P/V Galaxy & P/V Viceroy*	1,635,475	187,793	1,231,006						66,124	3,120,398
Great Alaskan Fish Co. *P/V Great Alaskan*	481,583	326,850								808,433
Harbor Seafoods Co., Inc., *Wrangell*					3,780					3,780
Icicle Seafoods, Inc., *Homer*	443,875	1,026,868		916,067	3,407,321					5,794,131
Petersburg	703,341	494,173		688,390						1,885,904
Seward	13,944	1,921,906		35,665						1,971,515
P/V Arctic Star	382,019	520,238	1,891,657							2,793,914
Total	1,543,179	3,963,185	1,891,657	1,640,122	3,407,321					12,445,464
Jonah, Inc., *P/V Phoenix & P/V Victoria M.*	300,000	28,000	200,000	10,000					80,000	618,000
Juneau Cold Storage, Inc., *Juneau*	17,000	482,500		335,000		61,900				896,400
Kodiak King Crab, Inc., *Kodiak*	216,900	772,200		326,300		95,000				1,410,400
Pacific Pearl Seafoods, Inc., *Kodiak & Dutch Harbor*	801,455	1,273,842	1,382,423		2,274,654	23,230				5,755,604
Pan Alaska Fisheries, Inc., *Dutch Harbor, M/V Royal Sea & M/V Royal Venture*	6,609,746	2,818,975	5,578,539	846,125					301,571	16,154,956
Peter Pan Seafoods, Inc., *King Cove*	531,459	838,075		55,906						1,425,440
Sea-Alaska Products, Inc. *F/P Robert E. Resoff*	1,051,146	856,745	2,693,750							4,601,641
F/P Sea Alaska	1,968,950									1,968,950
Total	3,020,096	856,745	2,693,750							6,570,591
Seawest Industries, Inc., *M/V Akutan, M/V Arctic Command, & M/V Western Sea*	2,200,000	950,000	3,000,000	1,700,000					80,000	7,930,000
Sitka Sound Seafoods, Inc., *Sitka*	191,300	550,000		766,800	61,000	80,000				1,649,100
St. Elias Ocean Products, Inc., *Cordova*	88,600	529,400		782,000		35,400	9,300		500	1,445,200
Trident Seafoods Corp., *Akutan, M/V Billiken, M/V Bountiful, M/V Neptune, & M/V Tempest*	1,352,670	572,469	282,432						861	2,208,432
Universal Seafoods, Ltd. *Dutch Harbor*	838,725	1,488,605	2,811,447	4,413					88,421	5,231,611
Ursin Seafoods, Inc., *Kodiak*	1,702,843	1,915,418		910,570						4,528,831
Western Alaska Fisheries, *Kodiak*	1,320,000	1,100,000		270,000		260,000*				2,950,000
Whitney Fidalgo Seafoods, Inc., *Kodiak*	257,797			179,265						437,062
Lst Whitney	129,691	39,566	810,470	25,080	341,551				208,250	1,554,608
Mokuhana	113,127									113,127
Total	500,615	39,566	810,470	204,345	341,551				208,250	2,104,797
Yakutat Seafoods, *Yakutat*	3,000	50,000		938,100			22,700*			1,013,800
TOTAL ALASKA	**23,814,547**	**21,116,769**	**19,881,724**	**8,915,481**	**6,388,306**	**555,530**	**32,000**		**825,727**	**82,355,811**
BRITISH COLUMBIA										
Prince Rupert Fishermen's Cooperative Assn., *Prince Rupert*	6			97,331					25,799	123,136
Savory Island Fishing Co., Ltd., *Vancouver*					68,182		145,000		43,182	256,364
TOTAL BRITISH COLUMBIA	**6**			**97,331**	**68,182**		**145,000**		**68,981**	**379,500**
WASHINGTON										
Ellison Oyster Co., *Olympia*							6,514	627,420		633,934
Guilford Packing Co., Inc., *Port Townsend*							234,379			234,379
Harbor Bell Inc., *Bay Center*				458,500	446,900					905,400
Mutual Fish Co., Inc., *Seattle*				15,000	20,000		30,000	8,000		73,000
Sargent Oyster Co., Inc., *Allyn*								924,000		924,000
Sea K Fish Co., Inc., *Blaine*				273,333						273,333
Seafarms Pacific, *Port Angeles & Blaine*								1,400,000		1,400,000
Seattle Seafoods, Inc., *Seattle*	1,055,537	441,270	240,596	55,553			2,854			1,795,810
Seawest Industries Inc., *Bellingham*				118,000						118,000
Washington Crab Producers, Inc., *Westport*				1,186,053	195,788				2,038	1,383,879
Wiegardt Bros. Inc., *Ocean Park*								8,802,750		8,802,750
TOTAL WASHINGTON	**1,055,537**	**441,270**	**240,596**	**2,106,439**	**662,688**		**273,747**	**11,762,170**		**16,542,447**

(WHOLE POUNDS, IN SHELL)

COMPANY AND LOCATION	KING CRAB	TANNER CRAB *BAIRDI*	TANNER CRAB *OPILIO*	DUNGENESS CRAB	SHRIMP	SCALLOPS	CLAMS	OYSTERS	MISC.	TOTAL
OREGON										
Bell Buoy Crab Co., *Seaside*				480,000			19,000			499,000
CALIFORNIA										
Andria's Seafood Specialties, Inc., *Santa Barbara*					203,902				258,196	462,098
California Sunshine Fine Foods Inc., *Sacramento*									300,000	300,000
Grader Fish Co., *Ft. Bragg*				12,450						12,450
Meredith Fish Co., *Sacramento*				1,000,000	1,000,000					2,000,000
Paladini Seafood Co., *Santa Rosa & San Francisco*				500,000	25,000					525,000
Tom Lazio Fish Co., Inc. *Eureka*				457,168	83,820					540,988
TOTAL CALIFORNIA				1,970,068	1,312,722				558,196	3,840,986

*Meat
Source: *Seafood Business Report*

SHELLFISH (cont. from page 67)

$1.50 per pound, settled for $1.25 per pound 24 hours before their season opened.

Exports of queen crab from Canada are believed to have taken the edge off the Japanese market and to have affected the U.S. market.

Kodiak's tanner crab stocks rebounded after a seven-year decline, and the expected harvest is about 23 million pounds, double the 1982 harvest. The 1983 Bering Sea harvest is projected at 9 million pounds for *bairdi* and 15 million pounds for *opilio*. There are signs of stock recovery in the Bering Sea, and next year's harvests may be higher.

• The collapse of the Pacific Northwest Dungeness crab fishery drove vessels and processors to Alaska. Several processors leased plants for the season but had problems finding vessels willing to deliver to them.

A record effort and no quotas allowed vessels to land 15.5 million pounds, slightly higher than the 14.9 million pounds taken in 1981.

Ex-vessel prices held at 70 to 75 cents a pound until early fall, when they jumped to 85 cents a pound. Wholesale prices climbed from $7 per pound to $7.50–$8 per pound, but inventories were a third higher at the beginning of 1983 than at the beginning

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Alaska Shellfish Landings

(THOUSAND POUNDS)

YEAR	KING CRAB	TANNER CRAB	DUNGENESS CRAB	SHRIMP
1962	52,782	1	8,989	16,943
1963	78,740		12,084	15,126
1964	86,720	14	12,709	7,727
1965	131,671		8,895	16,819
1966	159,202		5,053	28,193
1967	127,716	118	11,598	41,812
1968	82,037	3,247	13,247	42,077
1969	57,730	11,206	11,304	47,851
1970	52,061	14,473	9,696	74,256
1971	70,703	12,880	3,749	94,891
1972	74,427	30,135	5,448	83,830
1973	76,824	61,719	6,423	119,964
1974	95,214	63,906	3,818	108,741
1975	97,629	46,857	3,034	98,984
1976	105,899	80,771	1,546	128,682
1977	99,600	98,500	1,160	117,000
1978	122,930	130,630	7,170	73,330
1979	149,660	130,589	6,334	50,613
1980	185,498	121,666	5,912	52,308
1981	88,054	107,474	14,901	27,672
1982	39,325	68,777	15,815	17,018

Note: 1981 and 1982 data are preliminary. Source: ADF&G

Pacific Coast Shrimp Landings

(POUNDS)

YEAR	ALASKA	BRITISH COLUMBIA	WASHINGTON	OREGON	CALIFORNIA	TOTAL
1962	16,943,120	1,663,000	1,367,441	2,750,400	1,786,289	24,510,250
1963	15,126,950	1,788,000	956,105	3,114,700	2,095,278	23,081,033
1964	7,726,750	1,052,000	314,130	5,477,400	980,608	15,550,888
1965	16,818,941	1,755,000	23,468	1,748,000	1,425,875	21,771,284
1966	28,192,621	1,682,000	282,947	4,751,300	1,213,959	36,122,827
1967	41,812,552	1,696,000	1,028,744	10,373,956	1,404,821	56,316,073
1968	42,077,104	1,568,000	1,163,864	10,163,864	2,223,205	58,008,431
1969	47,850,560	2,118,700	1,425,286	10,477,945	2,951,800	64,824,255
1970	74,256,326	1,537,800	925,000	13,735,000	4,044,640	94,498,766
1971	94,891,304	735,000	678,000	9,291,000	3,074,000	108,669,304
1972	83,830,064	793,656	1,582,000	20,731,151	2,500,000	109,436,871
1973	119,963,729	1,728,406	5,271,000	24,517,194	1,239,976	152,720,305
1974	108,741,434	2,649,929	9,300,000	20,313,760	2,360,000	143,365,123
1975	98,535,031	1,728,406	10,200,000	24,083,568	4,997,000	139,544,005
1976	129,011,047	7,722,713	9,224,898	25,456,007	3,470,000	173,884,665
1977	116,871,605	6,175,084	11,400,000	48,580,070	15,663,451	198,690,210
1978	73,292,614	3,459,017	12,298,000	56,666,109	13,163,243	158,878,983
1979	50,613,000	1,578,493	12,135,000	29,586,586	4,922,917	98,835,996
1980	51,574,692	1,446,217	12,743,221	30,152,030	4,242,754	100,158,914
1981	27,972,242	2,070,119	10,055,343	25,923,589	4,098,013	70,119,306
1982	17,018,000	1,091,277	4,998,966	18,461,988	4,250,000	45,820,231

Note: 1981 Alaska data are preliminary. 1982 data are preliminary.
Sources: State and provincial fisheries agencies

Pacific Coast Dungeness Crab Landings

(POUNDS)

SEASON	ALASKA*	BRITISH COLUMBIA*	WASHINGTON	OREGON	CALIFORNIA	TOTAL
1961-62	8,989,000	2,444,000	5,675,000	5,813,000	3,987,000	26,908,000
1962-63	12,084,000	3,738,000	5,105,000	3,546,000	2,342,000	26,815,000
1963-64	12,708,000	4,302,000	5,043,000	3,540,000	1,998,000	27,591,000
1964-65	8,895,000	3,501,000	7,715,000	6,221,000	4,749,000	31,081,000
1965-66	5,053,000	4,538,000	11,649,000	10,187,000	10,419,000	41,846,000
1966-67	11,597,000	5,295,000	9,291,000	9,428,000	10,705,000	46,316,000
1967-68	13,242,000	4,373,000	11,736,000	10,215,000	13,158,000	52,724,000
1968-69	11,304,000	3,705,000	19,250,000	11,965,000	13,685,000	59,909,000
1969-70	9,697,000	2,548,000	18,675,000	13,849,000	15,564,000	60,333,000
1970-71	3,749,000	1,963,000	13,211,000	14,735,000	8,501,000	42,159,000
1971-72	5,448,000	1,975,321	10,095,000	6,780,000	2,875,000	27,213,321
1972-73	6,423,000	2,579,382	5,583,000	3,143,000	1,500,000	19,228,382
1973-74	3,818,000	2,502,221	4,604,000	3,462,000	880,000	15,266,221
1974-75	3,034,000	2,513,244	5,896,000	3,335,000	1,816,000	16,594,244
1975-76	1,523,000	2,193,577	9,885,000	9,099,000	17,410,000	40,110,577
1976-77	1,181,000	2,270,738	14,023,000	16,200,000	26,404,000	60,078,738
1977-78	7,215,000	2,592,609	9,237,000	12,501,274	13,900,000	45,445,883
1978-79	6,374,932	2,599,223	7,979,403	16,500,000	8,236,142	41,689,700
1979-80	5,905,290	3,750,024	6,546,544	18,243,998	13,700,000	48,145,856
1980-81	14,901,177	2,903,458	2,689,142	6,984,025	11,865,000	39,442,802
1981-82	15,815,000	3,386,266	2,564,632	6,975,430	10,500,000	39,241,328

*Latest calendar year.
Note: 1981-82 seasonal data are preliminary. Source: State and provincial fisheries agencies.

of 1982.

The 1982-83 Dungeness crab season opened December 1 in Oregon, Washington, and Northern California. The December storms that kept Oregon trawlers in port make it difficult to put a yardstick on Oregon landings. Through January, Oregon landings were around 1.5 million pounds. A normal season's landings for the months of December and January would total about 4 million pounds.

Washington's Dungeness crab landings for the months of December and January were not much better than Oregon's — 1.6 million pounds — but this represents an improvement over the start of the 1981–82 season. Landings still are not up to expectations. The first two months of a good season usually see about 3 million pounds landed.

This season, through mid-February, Northern California landings totalled 4,265,000 pounds. For the same period in the 1981-82 season, 9,500,000 pounds were landed. Landings have been falling for several years. This season, biologists don't expect more than 4,500,000 pounds to be landed, and the 1983-84 season landings could fall even lower. Those vessels that can are returning to dragging, and smaller vessels are waiting for the start of the salmon season.

Oregon and Washington landings are expected to increase this year or next as the Pacific Northwest Dungeness crab fishery hits what should be the low point of its 7- to 10-year cycle.

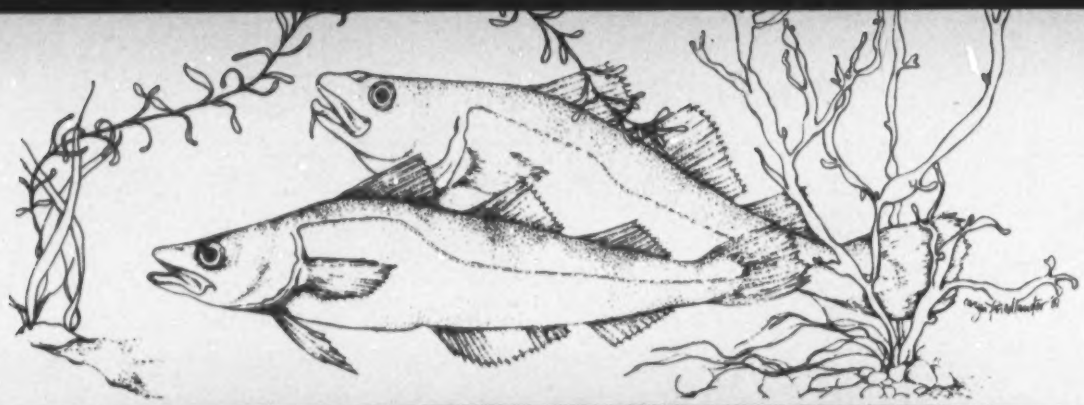
• The Alaskan shrimp fishery whimpered to its final collapse. Only 17 million pounds were harvested statewide. In Kodiak the total was 11 million pounds, half the 1981 harvest. Whether there will be a 1983 shrimp season in Kodiak remains questionable.

For processors who depended on shrimp to keep their plants working between crab and salmon seasons, the collapse of the shrimp stocks has compounded the problems caused by the failure of the king crab stocks.

Shrimp landings in both Washington and Oregon have fallen; 4.9 million pounds of shrimp were landed in Washington in 1982, half of what was landed in 1981, and Oregon landings for 1982 were one third lower than 1981's, when 25.9 million pounds were landed. 1982 saw only 18.5 million pounds. Both states expect landings during the 1983 shrimp season, which opens in April, to be higher than 1982's.

Shrimp landings in California have hovered around 4 to 5 million pounds for 4 years now. Area biologists expect that level to hold at least through the 1983 season.

— Chris Blackburn



Pacific Packers Report

BOTTOMFISH:

Failing Stocks Prompt Trip Limits

• Trip limits on some rockfish species and devaluation of European currencies face the West Coast bottomfish industry in 1983. High interest rates and high operating costs continue, and there may be some problems supplying new rockfish markets developed in the Southeast and Midwest.

Bottomfish landings off Washington, Oregon and California totalled 252 million pounds, up from 229 million pounds in 1981. The largest component of the catch, widow rockfish, has been placed on 30,000-pound trip limits and the total 1983 OY reduced to 10,500 metric tons (mt), from the 26,000 mt landed in 1982.

A 40,000-pound trip limit has been set on rockfish, excluding shortbelly rock, widows and Pacific Ocean perch, prompting fears among some processors that fishing won't be economic for the bigger boats that have supplied markets in winter. A decrease in landings has meant higher prices for some species. The Oregon Otter Trawl Commission expects in-

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Circle number 3 on the Reader Inquiry Card

Pacific Bottomfish Landings

(THOUSANDS OF POUNDS)

	WASHINGTON			OREGON			CALIFORNIA			BRITISH COLUMBIA		
	1980	1981	1982	1980	1981	1982	1980	1981	1982*	1980	1981	1982
Cod, Pacific	12,990	22,074	19,240	357	119	260				14,361	11,850	9,339
Dogfish	7,126	4,817	4,479	56	11	2				10,020	2,405	3,926
Flounder, arrowtooth	829	959	3,450	439	1,310	1,608	579†	106	102	262†	459†	359†
Flounder, starry	1,344	1,530	1,511	427	889	478		6	2			
Halibut, pacific	2,911	3,525	3,998	177	150	230				7,286	4,923	3,388
Lingcod	3,352	2,426	2,328	1,663	2,312	3,191	3,006	2,835	2,796	3,205	4,039	6,340
Pacific ocean perch	3,061	1,494	596	3,615	3,190	1,107	22	22	55	N/A	N/A	N/A
Pollock	938	2,113	340							4,804	2,491	1,825
Rockfish, other	32,470	16,525	17,223	35,173	18,805	26,096	24,965	38,957	31,277	21,272	20,797	22,787
Rockfish, widow	N/A	15,898	12,738	N/A	31,776	19,246	N/A	4,968	22,132	44	59	N/A
Sablefish	3,223	5,726	9,191	6,026	5,165	11,107	11,487	14,701	20,303	5,234	6,984	22,787
Skate	126	182	284	184	86	64	N/A	631	N/A	560	529	459
Sole, Dover	4,459	4,340	6,058	9,081	11,682	17,650	16,748	20,353	20,824	10,020*	9,583*	6,191*
Sole, English	2,743	1,966	2,339	1,584	1,611	2,136	4,399	3,767	2,930			
Sole, petrale	1,326	792	730	1,891	1,957	2,772	2,246	1,773	1,440			
Sole, rex	419	345	506	1,176	1,356	1,796	N/A	1,728	1,361			
Sole, rock	366	316	237	29	21	65	11	8	23			
Whiting	11,350	9,435	13,325	605	360	1	1,525	1,467	2,169	24	815	5,086

*Through October
†Unspecified
*All soles

Note: 1982 data are preliminary.
Source: State and provincial fisheries agencies, Pacific Fisheries Information Network

Alaska Bottomfish Catch

(METRIC TONS)

		GULF OF ALASKA		BERING SEA & ALEUTIANS		TOTAL	
		1981	1982	1981	1982	1981	1982
Pollock	Joint Venture	16,836.2	74,294.3	41,937.8	54,604.1	58,774.0	128,898.4
	Domestic Processors	782.7	2,237.2	234.3	115.3	1,017.0	2,452.5
	Foreign Catch	137,542.8	92,312.5	983,949.6	56,212.8	1,121,492.4	148,525.3
	Total	155,161.7	168,844.0	1,026,121.7	110,932.2	1,181,283.4	279,876.2
Sablefish	Joint Venture	.4	1.0	180.1	124.2	180.5	125.2
	Domestic Processors	1,247.8	1,928.3	1.1	132.0	1,248.9	2,060.3
	Foreign Catch	8,080.4	5,597.7	2,969.7	3,633.0	11,050.1	9,230.7
	Total	9,328.6	7,527.0	3,150.9	3,889.2	12,479.5	11,416.2
Pacific Cod	Joint Venture	57.9	194.1	9,330.0	13,591.4	9,387.9	13,785.5
	Domestic Processors	990.5	6,433.4	16,308.1	20,597.0	17,298.6	27,040.4
	Foreign Catch	36,564.9	26,689.6	38,877.6	27,927.1	75,442.5	54,616.7
	Total	37,613.3	33,317.1	64,515.7	62,115.5	102,129.0	95,432.6
Flounder	Joint Venture*	17.7	17.9	21,958.8	26,631.3	21,976.5	26,649.2
	Domestic Processors	485.7	162.5	31.5	4.8	517.2	167.3
	Foreign Catch*	14,965.8	8,954.3	115,401.6	23,575.2	130,367.4	32,529.5
	Total	15,469.2	10,034.7	137,391.9	50,211.3	152,861.1	59,346.0
Pacific Ocean Perch	Joint Venture	0.0	3.0	1.4	28.5	1.4	31.5
	Domestic Processors	1.3	1.6	0.0	9.3	1.3	10.9
	Foreign Catch	12,558.0	7,893.9	4,964.6	2,307.6	17,522.6	10,201.5
	Total	12,559.3	7,898.5	4,966.0	2,345.4	17,525.3	10,243.9
Rockfish	Joint Venture	0.0	0.0	7.0	1.3	7.0	1.3
	Domestic Processors	304.7	257.1	.8	2.7	305.5	259.8
	Foreign Catch	4,368.4	1,653.2	2,477.4	2,677.4	6,845.8	4,330.6
	Total	4,663.1	1,910.3	2,485.2	2,681.4	7,148.3	4,591.7
Atka Mackerel	Joint Venture	0.0	0.0	1,633.0	12,475.4	1,633.0	12,475.4
	Domestic Processors	0.0	0.0	0.0	0.0	0.0	0.0
	Foreign Catch	18,960.5	6,769.0	18,083.9	7,299.9	37,044.4	14,068.9
	Total	18,960.5	6,769.0	17,716.9	19,775.3	38,677.4	26,544.3
Other	Joint Venture	43.0	313.2	3,438.7	1,006.1	3,481.7	1,319.3
	Domestic Processors	193.9	109.0	1,699.8	0.0	293.7	109.0
	Foreign Catch**	9,747.8	3,159.2	45,203.4	27,260.2	46,532.1	30,419.4
	Total	9,984.7	3,581.4	50,341.9	28,266.3	50,607.5	31,847.7
TOTAL	Joint Venture	16,955.2	74,823.5	76,486.8	108,462.3	95,442.0	183,285.8
	Domestic Processors	4,006.6	11,129.1	16,875.6	20,861.1	20,682.2	31,990.2
	Foreign Catch	242,788.6	153,029.4	1,209,427.0	1,185,607.2	1,452,215.6	1,338,636.6
	Total	263,750.4	238,982.0	1,304,589.4	1,314,930.6	1,568,339.8	1,553,912.6

*Includes Yellowfin sole and Greenland turbot.
**Includes squid, thornyheads.

Note: 1982 data are preliminary.
Source: ADF&G and NMFS

creased landings of traditional rockfish species such as canary rock and yellowtail.

• The SWAT team of the Pacific fisheries — midwater boats built to develop the widow rock fishery — is urging the Pacific Fishery Management Council to amend its groundfish plan and to allow a joint venture south of the 39th parallel, near San Francisco, which fishermen say would give them a 10-month joint venture fishery.

The number of midwater boats interested in joint ventures has increased, and companies are rumored to be trimming a penny off the pollock price. Joint-venture allocations off Alaska have increased, with the pollock allocation set at 231,550 metric tons up from 183,000 metric tons last year.

Marine Resources, Inc., had an experimental joint venture on shortbelly rock off Monterey Bay in October, stimulating some shoreside interest. The Soviet–U.S. joint venture took 1.5 million pounds of the fish, which

biologists estimate is second only to whiting in volume.

• Dover landings are on the rise, as a poor shrimp price and poorer landings have forced some shrimpers to put on sole gear. The 1982 landings from the Vancouver area were 18.3 million pounds, up from 2.5 million pounds last year. Arrowtooth flounder landings have also increased considerably, to 5 million pounds from 2.3 million pounds in 1981.

Improved markets and price prompted an increased catch of sablefish last year, causing the PFMC to set 3,000-pound trip limits for the last quarter. For 1983, the council set a 22-inch size limit, with limits on the percentage of the catch that may be undersized.

• The number of American catcher/processors grew by one in 1982 with the addition of the *Golden Alaska* to the fleet. The *Arctic Trawler* boosted production to 23 million pounds of Pacific cod and 150,000 pounds of dressed sablefish.

Five Seattle-based fishermen have contracted for the construction of a 201-foot factory trawler from J.M. Martinac Shipbuilding Corp. of Tacoma. The vessel will be operated by the Glacier Fish Co., Ltd., and will be designed to fish and process Pacific cod and pollock. The Seattle-based *America No. 1* is also expected to begin processing headed and gutted cod into 100-pound blocks.

• Domestic shoreside processing of Alaska whitefish rose dramatically in 1982 and will continue to rise in 1983 as individual companies begin processing and marketing operations. An estimated 65 million pounds of pollock and Pacific cod were caught for domestic processing in Alaska in 1982 compared with 40 million pounds in 1981.

While the Alaska Food Company filed for bankruptcy, the International Seafoods plant in Kodiak filled an order for 1.000,000 pounds of headed and gutted frozen pollock for the Caribbean market. In their Dutch Harbor plant, Sea Alaska Products experimented with frozen cod production, in addition to pollock.

• An effort to process and market salt cod is suffering because of devaluation of European currencies. Jangaard Alaskan Fisheries has closed its Anchorage office because of the dollar's strength against the Norwegian krone. Recent devaluations of the French franc have hurt Sea Klipp Fish Co., a year-old U.S. producer of salt cod. Throw in competition from a weak Canadian dollar, and the outlook for European markets is weak. Sea Klipp is looking to the East Coast, Puerto Rico, and Africa as potential markets.

(continued on page 75)

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1982 West Coast Frozen Food Fish

(POUNDS)

COMPANY AND LOCATION	HALIBUT	BLACK COD	PACIFIC COD	ROCKFISH	FLATFISH	ROE HERRING	BAIT HERRING	MISC.	TOTAL
ALASKA									
Alaska Food Co., Inc., *Kodiak*			2,000,000					1,000,000	3,000,000
Alaska Ocean Prodcuts, Inc, *Kasilof*	84,000					79,126			163,126
Annette Island Packing Co., *Metlakatla*	66,314	82,086		3,245		1,116,712			1,268,357
Columbia Wards Fisheries, *Kodiak*	171,015								171,015
Dutch Harbor Seafoods, Ltd., *M/V Galaxy, M/V Viceroy*	315								315
Excursion Inlet Packing Co., *Excursion Inlet*	563,752								563,752
Great Alaskan Fish Co., *P/V Great Alaskan*						465,000			465,000
Harbor Seafoods Co., Inc., *Wrangell*	190,032								190,032
Icicle Seafoods, Inc., *Homer*	1,053,945			1,316		1,604,000			2,659,261
Petersburg	1,035,771	183,547	7,328	8,374		4,704,000			5,939,020
Seward	2,628,019	103,949				1,586,000			4,317,968
P/V Arctic Star						1,132,000			1,132,000
P/V Bering Star						3,074,000			3,074,000
Total	4,717,735	287,496	7,328	9,690		12,100,000			17,122,249
International Seafoods of Alaska, Inc., *Kodiak*			500,000					2,000,000	2,500,000
Jonah, Inc., *M/V Phoenix, M/V Victoria M.*	10 000		10,000						20,000
Juneau Cold Storage Co., Inc., *Juneau*	618,500	321,000		8,000			93,000*		1,040,500
Kodiak King Crab, Inc., *Kodiak*	1,585,100					2,734,000			4,319,100
Northern Products Corp., *various*	240,920	34,036							274,956
Ocean Beauty Alaska, Inc./ Ketchikan Cold Storage, *Ketchikan*	76,500	31,500				440,000	101,000		649,000
Pacific Pearl Seafoods, *Dutch Harbor & Kodiak*	121,358		58,486						179,844
Peter Pan Seafoods, Inc., *King Cove*	55,147								55,147
Sea Alaska Products, Inc.									
F/P Robert E. Resoff			95,808			870,000	785,485		1,751,293
F/P SeaAlaska		4,500	792,898			470,000			1,267,398
Total		4,500	888,706			1,340,000	785,485		3,018,691
Seafood Producers Cooperative, *Sitka*	943,365	257,743		10,000		1,000,000			2,211,108
Sea-Nik Foods, *Ninilchik*	13,000								13,000
Sitka Sound Seafoods, Inc., *Sitka*	1,690,200	1,488,400	10,000	155,000		1,974,280	1,100,000		6,417,880
St. Elias Ocean Products, Inc., *Cordova*	283,600		61,300			374,000	122,200		841,100
Trans Pacific Seafoods, Inc., *Arctic Trawler*		150,000	23,000,000						23,150,000
Trident Seafoods Corporation, *M/V Billiken, M/V Bountiful, P/V Neptune, M/V Tempest & Akutan,* Total	23,256	174,308	11,253,417		10,500	5,978,290	2,965,720*	26,890	20,432,381
Universal Seafoods, Ltd., *Dutch Harbor*	285,011	35,892	1,099,752						1,477,655
Ursin Seafoods, Inc., *Kodiak*	534,628					422,327			956,955
Western Alaska Fisheries, *Kodiak*						770,000			770,000
Whitney Fidalgo Seafoods, Inc.,									
Anchorage Cold Storage	56,041					1,237,428			1,293,469
Kodiak	4,043								4,043
Lst Whitney			88,025						88,025
Mokuhana						353,459			353,459
Petersburg	367,297	187,879	1,486	1,596		242,593			800,851
Yardarm Knot						6,305,477			6,305,477
Total	427,381	187,879	89,511	1,596		8,138,793			8,845,324
Yakutat Seafoods, *Yakutat*	147,300								147,300
TOTAL ALASKA	12,848,429	3,054,840	38,978,500	187,531	10,500	36,932,528	5,167,405	3,026,890	100,206,623
BRITISH COLUMBIA									
Central Native Fishermen's Cooperative, *Vancouver*	20,000					5,200,000			5,220,000
J.S. McMillan Fisheries, Ltd., *Vancouver & Prince Rupert*	550,000	150,000	2,500,000	3,450,000	1,800,000	2,091,000			10,541,000
Millerd Fisheries Ltd., *North Vancouver*		1,500,000				1,400,000			2,900,000
Prince Rupert Fishermen's Cooperative Assn., *Prince Rupert*	540,697	184,029	496,273	7,397	73,991	10,750,065		45,797	12,098,249
TOTAL BRITISH COLUMBIA	1,110,697	1,834,029	2,996,273	3,457,397	1,873,991	19,441,065		45,797	30,759,249

COMPANY AND LOCATION	HALIBUT	BLACK COD	PACIFIC COD	ROCKFISH	FLATFISH	ROE HERRING	BAIT HERRING	MISC.	TOTAL
WASHINGTON									
Arrowac Fisheries, *Bellingham*								5,000,000	5,000,000
Guilford Packing Co., Inc., *Port Townsend*	5,000		5,217	12,000					22,217
Harbor Bell, Inc., *Bay Center*		2,800		50,500					53,500
Marine Resources Co., *at sea processor*		231,483	28,836,168	1,560,856	60,262,741			168,433,643	259,324,891
Mutual Fish Co., *Seattle*	1,000	20,000	1,000	10,000	1,000				33,000
Sea K Fish Co., Inc., *Blaine*		137,783	221,284	598,992	1,024,880	476,959		270,711	2,730,609
Seafarms Pacific, *Port Angeles & Blaine*	250,000	1,500,000	200,000						1,950,000
Seattle Seafoods, Inc., *Seattle*	1,409,859	40	8,233						1,418,132
Seawest Industries, Inc., *Bellingham*	517,000	9,000				94,000	276,000		896,000
Steuart Seafoods, Inc., *Everett*	100,000	264,000		7,000,000					7,364,000
Washington Crab Producers, Inc., *Westport*	4,774	452,419	567,637	7,422,228	947,800			57,672	9,452,530
Washington Fish & Oyster Co., *Seattle*	593,000	174,000		12,000				33,000	812,000
TOTAL WASHINGTON	2,880,633	2,791,525	29,839,539	16,666,576	62,236,421	570,959	276,000	173,795,026	289,056,679
CALIFORNIA									
Andria's Seafood Specialties, Inc., *Santa Barbara*	41,755			438,365				105,765	585,885
Grader Fish Co., *Ft. Bragg*		442,878		205,594	216,151			101,069	965,692
Meredith Fish Co., *Sacramento*	500,000	300,000	3,000	3,000	4,000				810,000
Paladini Seafood Co., *Santa Rosa & San Francisco*		29,000		3,500,000	2,800,000				6,329,000
Tom Lazio Fish Co., Inc., *Eureka*	15,006	1,407,231		4,266,489	4,490,159				10,178,885
TOTAL CALIFORNIA	556,761	2,179,109	3,000	8,413,448	7,510,310			206,834	18,869,462

*Food herring

Source: *Seafood Business Report*

BOTTOMFISH (cont. from page 73)

Trident Seafoods had a slow start on salt cod at their Akutan plant, but production has been stepped up, with 2.2 million pounds shipped to Portugal. The company is also processing Felettoni, a fillet product aimed at Southern European markets. A new product is stockfish, air-dried small cod directed at African markets, particularly Nigeria. The company hopes to be producing frozen cod for the domestic market by spring.

Johansen Seafoods is leasing Pacific Pearl's Captain's Bay plant for production of salted cod fillets primarily, with salted cod splits and stockfish as secondary products. The effort, formerly a joint venture with Seapro, produced 4 million pounds in 1982, its start-up year, and expects to produce 8 to 10 million pounds this year, targeting European and African markets.

The International Pacific Halibut Commission has increased the halibut quota for 1983 by a couple of million pounds to 30.6 million. Some 25 million pounds will be taken in Alaska, with the biggest increase in the area west of Kodiak, where the stocks have been rebuilding. The Canadians will take 5.4 million pounds, while 200,000 pounds have been set aside for fishermen off the Washington and Oregon coasts. — *Carmel Finley*

Pacific Halibut Catch

(THOUSANDS OF POUNDS)

YEAR	U.S.	CANADA	TOTAL
1960	38,350	33,613	71,963
1961	40,065	29,466	69,531
1962	40,446	34,673	75,119
1963	34,290	37,133	71,432
1964	26,379	33,588	59,967
1965	30,486	32,987	63,473
1966	30,359	31,972	62,331
1967	29,948	25,669	55,658
1968	19,371	29,469	48,840
1969	25,008	33,597	58,605
1970	25,783	29,155	54,938
1971	21,158	25,496	46,654
1972	20,483	22,535	43,018
1973	17,290	14,410	31,700
1974	13,938	7,368	21,306
1975	16,259	11,357	27,616
1976	15,539	11,996	27,535
1977	13,101	8,767	21,868
1978	13,383	8,605	21,988
1979	15,868	6,659	22,527
1980	14,264	7,602	21,866
1981	20,078	5,654	25,732
1982	23,482	5,236	28,718

Note: 1982 data are preliminary.
Source: International Pacific Halibut Commission

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Pacific Herring Landings

(SHORT TONS)

	1977		1978		1979		1980		1981		1982	
	FOOD & BAIT	SAC ROE	FOOD & BAIT	SAC ROE	FOOD & BAIT	SAC ROE	FOOD & BAIT	SAC ROE	FOOD & BAIT	SAC ROE	FOOD & BAIT	SAC ROE
ALASKA												
Southeastern	6,409	2,658	4,042	3,062	3,480	3,087	2,700	6,458	1,500	6,740	1,527	7,212
Bristol Bay		2,791		7,751	901	10,251	2,993	16,603	13	12,538	1,395	21,500
Prince William Sound	17	2,284	1,044	1,357	762	4,136	298	6,280	1,148	14,044	803	7,315
Cook Inlet	21	3,199	149	402	65	534	32	104		221	60	120
Arctic-Yukon-Kuskokwim		10		301		1,807	135	4,031	23	6,646	205	5,150
Kodiak		338	283	621	107	1,735	150	2,932		2,063	16	1,771
Chignik										447		190
Alaska Peninsula									704	727	4,130	727
TOTAL	6,447	11,280	5,518	13,494	5,315	21,550	6,308	36,408	3,388	43,426	8,130	43,985
BRITISH COLUMBIA												
Queen Charlotte Islands		13,013		13,483		10,034		3,948		6,414		5,100
Northern & Central Coasts		17,774		21,779		2,551		3,302		3,760		6,168
Straits of Georgia		10,929		12,201		4,989		3,671		9,092		9,070
West Coast of Vancouver Island		33,790		18,911		21,252		5,490		10,032		7,070
TOTAL	26,243	75,505	20,006	66,374	6,815	38,826	9,822	10,411	9,551	29,298	1,400	27,408
CALIFORNIA												
San Francisco Bay		4,224		5,016		4,121		6,450		5,826		5,701
Tomales Bay & Bodega Bay		597		716		448		596		448		860
Humboldt Bay		21		12		49		49		43		52
Crescent City				13		12		26		6		4
TOTAL		4,842		5,757		4,630		7,121		6,323		9,617
WASHINGTON												
All Points		2,303		2,134	1,781	1,915	3,471	1,587	1,331		1,013	854
TOTAL	32,690	93,930	25,524	87,759	13,911	66,921	19,601	55,527	14,270	79,047	10,543	81,864

Source: State and provincial fisheries agencies

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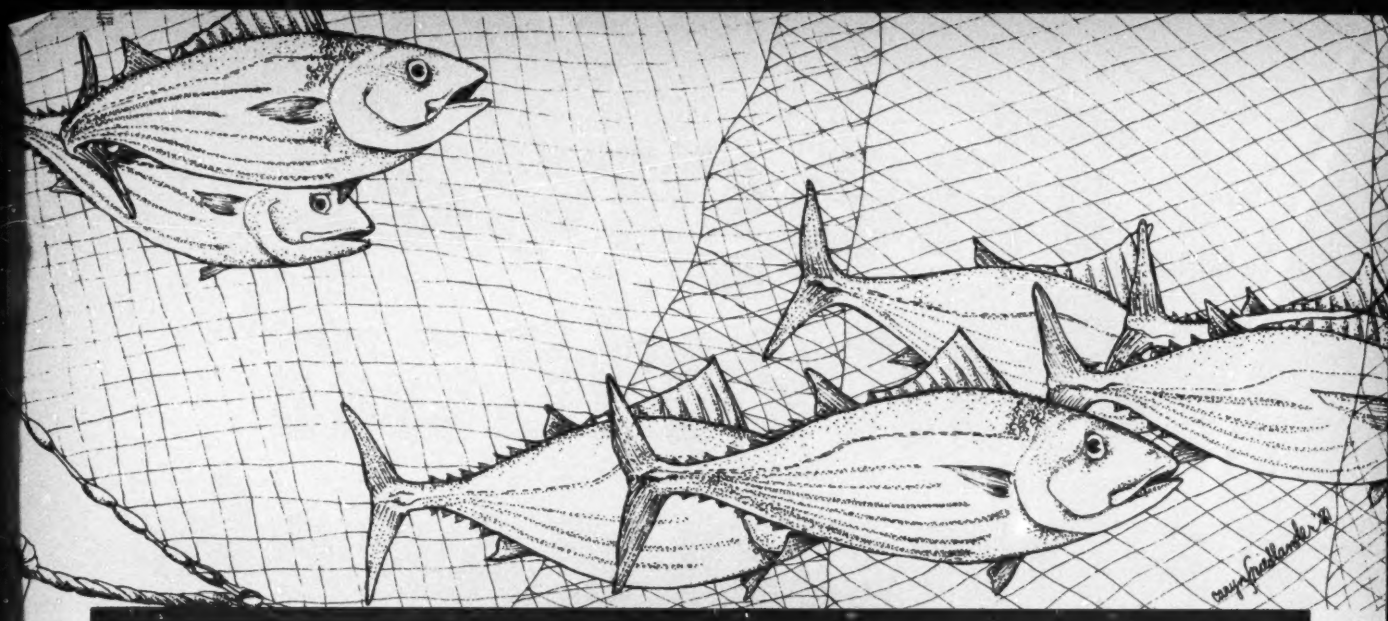

Pacific Packers Report

TUNA:

Hopes for an Economic Recovery

• The American tuna industry is in a state of turmoil that some observers see as the worst in almost a decade.

The industry is characterized by lower production, smaller packs, and sales gained through heavy discounting. Inventories held by most companies appear to be manageable and diminishing, but reductions are being achieved by controlling raw-product purchases rather than by increased sales.

Preliminary year-end figures show production decreases from 1981 levels in almost every segment of the industry. For example, total domestic-caught receipts for all species landed at U.S. canneries finished the year at 142,317 tons, down from 170,102 in 1981. The biggest declines were in albacore, down to 4,712 tons from 14,108 the year before, and bonito, which dropped from 7,110 to 1,855 tons. Skipjack and yellowfin receipts also declined by 10–15 percent. Only bluefin receipts posted an increase over 1981.

The continental U.S. canned tuna pack reflects the downturn in landings. Total 1982 pack was 9.5 million cases, as compared with 13.2 million cases at the end of 1981. This pack includes domestic receipts and imports, which also declined by about one-third.

• As landings have declined, so have ex-vessel prices. American Tuna Sales Association figures indicate that the average dockside price calculated for the combination of the six species and size splits dropped to $943 per ton from $1107 prior to the last price agreement. That agreement expired in September, and vessels are fishing on open tickets. However, significant shifts away from the contract prices are not anticipated. The canners have been successful in implementing a policy of deducting $60 per ton from the grade-one price for fish that do not meet certain quality criteria.

Vessel owners suffered doubly during the last 12 months. They experienced price reductions for their catches in the face of ever-escalating operating costs, and they suffered delays in unloading their fish at the canneries. During mid-summer, the wait to unload fish stretched as long as three to five weeks at some canneries, but fishermen say that by early winter there were no more delays.

• A lower raw-material price in the face of a declining market has allowed canners the competitive strategy of lowering case prices and offering hefty promotional discounts. National brand chunk light, in 6½ oz. cans, which last year at this time was selling for around $39 a case, is down to $33–$35. Private labels sell for $5–$6 less. Allowances have been around $8 for branded labels and as high as $10.50 for private labels.

Clearly, the private labels have the edge in price competition, and according to the canners, the public has been showing greater preference for the cheaper brands. Lower prices and discounting are here to stay for the foreseeable future.

• Canners point to several causes for the industry's woes. A recall of suspected defective cans hit Bumble Bee

(continued on page 80)

1982 United States Tuna Pack

(STANDARD CASES*)

REGION	ALBACORE	LIGHTMEAT	TOTAL
U.S. Continental	823,000	8,689,000	9,512,000
Puerto Rico, American Samoa and Hawaii	4,512,000	10,584,000	15,096,000
TOTALS	5,335,000	19,273,000	24,608,000

*48 halves per case.
Note: 1982 data are preliminary and estimated.
Source: NMFS

United States Tuna Packs by Type Pack

(STANDARD CASES*)

	ALBACORE				LIGHT MEAT					
YEAR	Solid	Chunks	Grated & Flakes	Total	Solid	Chunks	Grated & Flakes	Total	TOTAL	YEAR
1950	1,540,822	513,020	—	2,053,842	2,601,993	4,201,704	—	6,803,697	8,857,539	1950
1951	1,033,902	529,851	—	1,563,753	1,880,053	4,550,290	—	6,430,343	7,994,096	1951
1952	1,349,796	760,531	483,630	2,593,957	1,489,387	3,144,693	1,265,597	5,899,677	8,493,634	1952
1953	1,477,659	713,096	499,880	2,690,635	1,476,053	3,392,672	1,124,732	5,993,457	8,684,092	1953
1954	1,422,269	425,826	447,594	2,295,689	1,791,514	4,805,510	1,234,157	7,831,181	10,126,870	1954
1955	1,654,775	336,913	433,727	2,425,415	1,401,015	4,374,343	868,641	6,643,999	9,069,414	1955
1956	1,887,438	454,134	328,976	2,670,548	1,574,651	6,505,454	965,926	9,046,031	11,716,579	1956
1957	2,155,104	899,310	491,228	3,545,642	1,316,312	5,391,053	906,552	7,613,917	11,159,559	1957
1958	1,984,746	468,340	415,286	2,868,372	1,332,399	7,742,364	1,272,614	10,347,377	13,215,749	1958
1959	2,185,877	449,266	460,491	3,095,634	1,201,786	8,131,658	1,101,115	10,434,559	13,530,193	1959
1960	2,571,359	1,010,772	494,332	4,076,463	986,153	9,134,416	1,108,402	11,228,971	15,305,434	1960
1961	2,575,010	844,514	471,907	3,891,431	1,094,750	9,678,056	1,103,467	11,876,273	15,767,704	1961
1962	2,755,045	1,428,438	601,071	4,784,554	1,433,216	9,614,491	1,185,667	12,233,374	17,017,928	1962
1963	3,537,068	1,060,232	668,871	5,266,171	645,622	9,712,549	931,478	11,289,649	16,555,820	1963
1964	3,517,340	1,963,501	501,425	5,982,266	1,002,068	9,952,429	752,240	11,706,737	17,689,003	1964
1965	3,650,549	1,985,700	524,687	6,160,936	1,196,272	10,071,458	670,138	11,937,868	18,098,804	1965
1966	3,739,290	2,304,662	530,131	6,574,083	1,084,757	11,449,794	844,933	13,379,484	19,953,567	1966
1967	3,980,476	2,183,351	528,230	6,692,057	868,959	11,167,976	952,644	12,989,579	19,681,636	1967
1968	3,704,454	2,366,488	468,997	6,539,939	1,266,587	11,522,250	682,914	13,471,751	20,011,690	1968
1969	4,261,305	1,928,561	535,468	6,725,334	1,235,113	11,531,740	605,452	13,372,305	20,097,639	1969
1970	4,696,060	1,873,744	424,515	6,994,319	1,535,639	12,662,957	870,425	15,069,021	22,063,340	1970
1971	4,017,897	2,311,862	423,276	6,753,035	1,070,624	13,545,365	835,949	15,451,938	22,204,973	1971
1972	6,811,418	2,251,978	465,710	9,529,106	2,012,981	18,775,190	892,825	21,680,996	31,210,102	1972
1973	6,389,185	1,825,834	539,032	8,754,051	1,734,791	20,558,421	1,058,323	23,351,540	32,105,591	1973
1974	6,329,053	1,348,817	484,456	8,162,326	1,810,202	22,235,539	1,155,866	25,201,607	33,363,933	1974
1975	3,894,434	884,482	234,653	5,013,569	1,335,316	19,971,267	481,499	21,788,082	26,801,651	1975
1976	4,757,090	950,468	258,115	5,965,673	1,495,922	22,350,310	492,584	24,338,816	30,304,489	1976
1977	4,615,000	1,390,000	216,000	6,221,000	1,664,000	19,468,000	307,000	21,439,000	27,660,000	1977
1978	5,578,916	1,265,543	275,754	7,120,213	1,690,372	26,435,590	388,966	28,514,928	35,635,141	1978
1979	4,493,388	1,033,292	278,242	5,804,922	1,341,195	23,976,226	300,138	25,597,559	31,402,481	1979
1980	4,350,105	965,372	189,948	5,505,425	784,227	24,032,002	187,068	25,003,297	30,508,722	1980
1981	5,005,780	731,265	89,445	5,826,490	433,720	25,318,876	175,042	25,927,638	31,754,128	1981
1982	NA	NA	NA	5,335,000	NA	NA	NA	19,273,000	24,608,000	1982

*48 halves per case.
Note: 1982 data are preliminary and estimated.
Source: NMFS

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United States Tuna Packs

(STANDARD CASES*)

YEAR	CALIFORNIA	OREGON AND WASHINGTON	HAWAII, PUERTO RICO, AM. SAMOA, MARYLAND	TOTAL
1960	10,714,911	1,473,540	3,116,983	15,305,434
1961	10,545,568	1,261,666	3,960,470	15,767,704
1962	10,511,164	1,471,189	5,035,575	17,017,928
1963	9,074,754	1,487,036	5,994,030	16,555,820
1964	9,292,629	1,503,283	6,893,091	17,689,003
1965	9,012,710	1,760,757	7,325,337	18,098,804
1966	9,613,331	1,540,670	8,799,566	19,953,567
1967	8,962,412	1,508,537	9,210,687	19,681,636
1968	9,042,920	1,778,382	9,190,388	20,011,690
1969	8,990,094	1,656,951	9,450,594	20,097,639
1970	10,567,515	1,588,905	9,906,920	22,063,340
1971	9,735,943	1,422,117	11,046,913	22,204,973
1972	13,011,296	1,887,008	16,311,798	31,210,102
1973	13,920,431	1,687,610	16,497,550	32,105,591
1974	14,331,606	1,862,093	17,170,234	33,363,933

YEAR	CONTINENTAL	HAWAII, PUERTO RICO AMERICAN SAMOA	TOTAL	YEAR
1975	13,025,544	13,776,107	26,801,651	1975
1976	15,921,290	14,383,199	30,304,489	1976
1977	12,605,000	15,054,907	27,660,237	1977
1978	16,591,000	19,989,132	35,580,132	1978
1979	14,222,000	17,559,000	31,781,000	1979
1980	14,287,759	16,220,963	30,508,722	1980
1981	13,233,951	18,520,177	31,754,128	1981
1982	9,512,000	15,096,000	24,608,000	1982

*48 halves per case.
Note: 1975 begins new reporting system and is comparable only in totals for year. 1982 data are preliminary and estimated.
Source: NMFS

Tuna Prices Paid Fishermen

(DOLLARS)

YEAR	ALBACORE	YELLOWFIN	BLUEFIN	SKIPJACK
1950	400	310	300	290
1951	400-250-300	310	300	290
1952	350	320	310	280
1953	400	320	310	280
1954	400-410	350-330	340-320	320-290
1955	350-310-330	330-270	320-210	290-230
1956	375-300	270	280-260	230
1957	310-280-300	270-230-270*	260-200-260	230-190-230
1958	425	275-283-263	260	235-252-223
1959	435-400	270-240-253	260-240	230-200-217
1960	325-375	250	250	210
1961	325-375	240-290	220-280	210-260
1962	200-310	300-290	280-250	260-250
1963	275-325	290-240	250-220	250-200-210
1964	300-325	245-270	240	200
1965	300-325	245-336	240-267	200-286
1966	375-390	315-480	290-311	260-392
1967	390-400	265-358	235-280	205-293
1968	425	307-318-315	292-298-295	257-268-265
1969	450	321-332	210-309	271-284
1970	550	346-397	326-377	347-396
1971	630	411-425-421	391-405-403	261-376
1972	680	442-445	422-425	405-408
1973	830	477-501	457-481	447-471
1974	820	575	555	535-545
1975	675	580-500	480	540-450
1976	675-1,000	580-630	560-595	513-590
1977	1,165	665-840	645-820	620-790
1978	1,165	790-840	820	690-790
1979	1,390	810-950	930	545-850
1980	1,635	1,100-1,200	1,180	800-1,100
1981	1,800	1,100-1,200	1,180	800-1,100
1982	1,000-1,350	890-1,170	870-1,150	500-890

Note: Prices quoted are per short ton of round fish in good condition landed at the canner's dock. 1982 prices vary depending on the size of the fish.
Source: NMFS.

Continental Imports

(SHORT TONS)

YEAR	ALBACORE	BLUEFIN
1961	15,602	639
1962	16,084	725
1963	8,488	1,179
1964	16,716	1,839
1965	22,189	415
1966	24,412	1,576
1967	21,749	1
1968	23,725	40
1969	22,829	185
1970	15,656	435
1971	12,986	1,292
1972	31,222	2,780
1973	24,376	3,663
1974	24,819	576
1975	7,066	802
1976	34,808	891
1977	8,810	1,085
1978	15,503	221
1979	13,312	54
1980	11,485	
1981	14,600	
1982	11,115	

Note: Data prior to 1976 is for California only.
Source: NMFS

TUNA (cont. from page 78)

last year. Foreign imports have gained in volume, and — at $22–$27 per case — have now captured some 20 percent of the U.S. market. But it is generally acknowledged that the stagnant economy is the real culprit, and most prognosticators are pinning their hopes for an industry turnaround on a national recovery.

The impact of canned-tuna imports has become more serious with the passage of an omnibus tariff act that excludes tuna canned in American Samoa from being counted against the import quota. With American Samoa's production not applied against the quota — set at 20 percent of domestic production — virtually all imported tuna comes in at 6 percent duty rather than at the 12.5 percent assessed on tuna brought in over the quota. One industry observer calls the measure a "windfall for importers" and says that it "will create havoc in the industry — there will be a lot of cheap tuna floating around."

• Most of the companies seem fairly optimistic about their prospects. Bumble Bee reports a decline in sales, but says that the impact on sales of the recent recall is diminishing. The company has been successful in reducing inventories. A Neptune spokesman says his company can always sell tuna by offering a discount, but he feels there is a need for legislation to reduce the level of imports.

The strategy of closing plants briefly at Star Kist last spring has left the company in a good position on inventories. A spokesman says that an increase in imports would constitute little more than "the tail on the dog" of the industry and that he looks for a modest increase in U.S. consumption in the coming year.

of Frozen Tuna

SKIPJACK	YELLOWFIN	TOTAL
5,172	30,572	61,985
2,397	45,325	64,531
4,674	24,720	39,061
3,208	26,937	48,700
2,858	19,686	45,148
7,215	30,531	63,734
2,170	13,332	37,252
771	30,161	54,697
1,449	18,241	42,704
10,977	15,337	42,405
26,209	9,633	50,120
42,642	18,286	94,930
89,199	23,386	140,624
79,988	10,314	115,697
21,351	13,549	42,768
40,960	16,318	92,977
64,223	20,110	94,228
72,279	37,314	125,317
68,490	24,737	106,593
77,413	16,280	105,178
50,763	19,348	84,711
37,107	8,062	56,284

Mitsubishi Foods recently completed its first year in the business, processing 20,000 tons of raw fish in a facility that could handle 25,000–30,000 tons. A spokesman says the company can tolerate running at below capacity, but there is concern about the prospects of increased imports. — *Terry Johnson*

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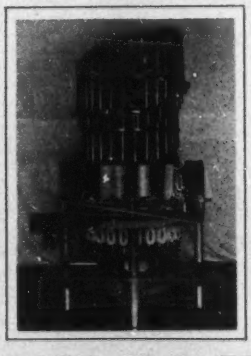

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Alaska Private Nonprofit Hatchery Releases and Returns

(NUMBERS OF FISH)

	1979		1980		1981		1982	
	RELEASES	RETURNS	RELEASES	RETURNS	RELEASES	RETURNS	RELEASES	RETURNS
Alaska Aquaculture Foundation, Inc.								
Burnett Inlet, Wrangell								
Pink	2,000,000		250,000	800	100,000	16,500	30,000	6,440
Chum					200,000		310,000	652
Total					300,000	16,500	340,000	7,092
Burro Creek Farms								
Burro Creek, Skagway								
Pink							500,000	450
Chum							150,000	
Total							650,000	450
Douglas Island Pink & Chum, Inc.								
Kowee Creek, Juneau								
Pink	2,200,000	10-20,000	2,178,500	5,000	2,200,000	14,000	3,000,000	16,000
Chum	50,000		224,104		1,000,000	100	500,000	200
Total	2,250,000	10-20,000	2,382,604	5,000	3,200,000	14,100	3,500,000	16,200
Sheep Creek, Juneau								
Pink					1,000,000		9,000,000	56,000
Chum							100,000	
Total							9,100,000	56,000
Meyers Chuck Aquaculture Association								
Meyers Chuck, Southern Southeast								
Pink							10,000	
NERKA, Inc.								
Perry Island, Prince William Sound								
Pink			200,000	450,000	100,000	1,000		5,000
Northern Southeast Regional Aquaculture Association								
Salmon Creek, Juneau								
Pink							1,560,000	5,000
Chum							910,000	
Total							2,470,000	5,000
Sheldon Jackson College Aquaculture Program								
Indian River, Sitka								
Pink	2,500,000	48,000	7,650,000	5,540	2,100,000	195,000	10,690,000	48,000
Chum	600,000		50,000	200	100,000	38	80,000	79
Coho			12,196		100,000	250	10,000	
Total	3,100,000	48,000	7,712,196	5,740	2,300,000	195,288	10,780,000	48,079
Southern Southeast Regional Aquaculture Association								
Whitman Lake, Ketchikan								
Chum			2,672,000		18,600,000		13,500,000	19,841
Coho			549,000		800,000	51,800	560,000	61,709
King							220,000	3,500*
Total			3,221,000		19,400,000	51,800	14,130,000	75,050
Total, All Programs								
Pink	29,700,000	558,000	31,834,500	1,504,880	78,800,000	2,491,345	24,790,000	136,890
Chum	900,000		3,341,104	1,590	21,900,000	20,518	15,400,000	20,772
Coho			561,196		900,000	52,050	570,000	61,709
King							220,000	3,500
GRAND TOTAL	**30,600,000**	**588,000**	**35,736,800**	**1,506,470**	**101,600,000**	**2,563,913**	**40,980,000**	**219,371**

*Jacks returning year of release.

Source: ADF&G

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West Coast Public Hatchery Releases

(RELEASES OF FISH IN MILLIONS)

PROGRAM	SUMMER CHINOOK	SPRING CHINOOK	FALL CHINOOK	COHO	CHUM	SOCKEYE	PINK	TOTAL
WASHINGTON (1981)								
Washington Dept. of Fisheries		16.84	92.79	103.93	66.01	10.15		289.72
U.S. Fish & Wildlife Service		7.72	29.06	6.04	4.20			47.02
Tribes		2.01	4.61	5.19	10.93			22.74
WDF-Cooperative		.31	2.56	5.24	2.17	.30		10.58
School			.31	1.27	1.21			2.79
TOTAL WASHINGTON (1981)		26.88	129.33	121.67	84.52	10.45		372.85
WASHINGTON (1982)								
Washington Dept. of Fisheries		12.70	108.70	89.72	29.13	4.37	1.88	246.50
U.S. Fish & Wildlife Service		5.95	23.16	4.35	4.14			37.60
Tribes		.10	7.30	4.95	11.46		.11	23.92
WDF-Cooperative		.27	2.33	5.81	.78	.23		9.42
School			.20	.63	.52			1.35
TOTAL WASHINGTON (1982)		19.02	141.69	105.46	46.03	4.60	1.99	318.79
OREGON (1982)								
Oregon Dept. of Fish & Wildlife								
Columbia River		5.11	33.70	5.55	.03			44.39
Coastal		1.79	1.88	4.32	.10			8.09
Federal Hatcheries								
Columbia River		.59		.93				1.52
TOTAL OREGON		7.49	35.58	10.80	.13			54.00
IDAHO (Oct. 1, 1981 - Sept. 30, 1982)								
Idaho Dept. of Fish & Game		1.49						1.49
Federal Hatcheries		.50	.70					1.20
TOTAL IDAHO		1.99	.70					2.69
ALASKA (1982)								
Alaska Dept of Fish & Game		.72	2.82	40.64	36.56			114.86
CALIFORNIA (Oct. 1981 - Sept. 1982)								
Federal			12.35	1.99				14.34
State			28.89					28.89
TOTAL CALIFORNIA			31.24	1.99				33.23
BRITISH COLUMBIA (1982)			17.30	10.90	120.40	239.00	10.00	397.60

Source: State and provincial fisheries agencies.

Oregon Private Salmon Hatchery Releases

(NUMBERS OF FISH)

YEAR OF RELEASE	SPRING CHINOOK	FALL CHINOOK	COHO	CHUM	TOTAL
1972				51,150	51,150
1973		10,025		276,375	286,400
1974		1,018,277	87,782	572,082	1,681,141
1975	5,551	17,982	142,032	2,792,930	2,958,495
1976	161,251	147,662	2,079,834	2,447	2,391,194
1977	42,079		2,370,690	120,400	2,533,169
1978	15,790	522,101	9,907,874	465,174	10,910,939
1979	1,397,131	222,811	5,811,741	10,940,199	18,371,882
1980	1,268,718	438,136	14,817,346	8,000	16,532,200
1981	1,755,892	499,728	23,852,408	5,528,589	31,636,617
1982	351,416	558,640	23,313,154	1,649,406	25,873,616

Note: 1982 data are preliminary.
Source: Oregon Dept. of Fish & Wildlife

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